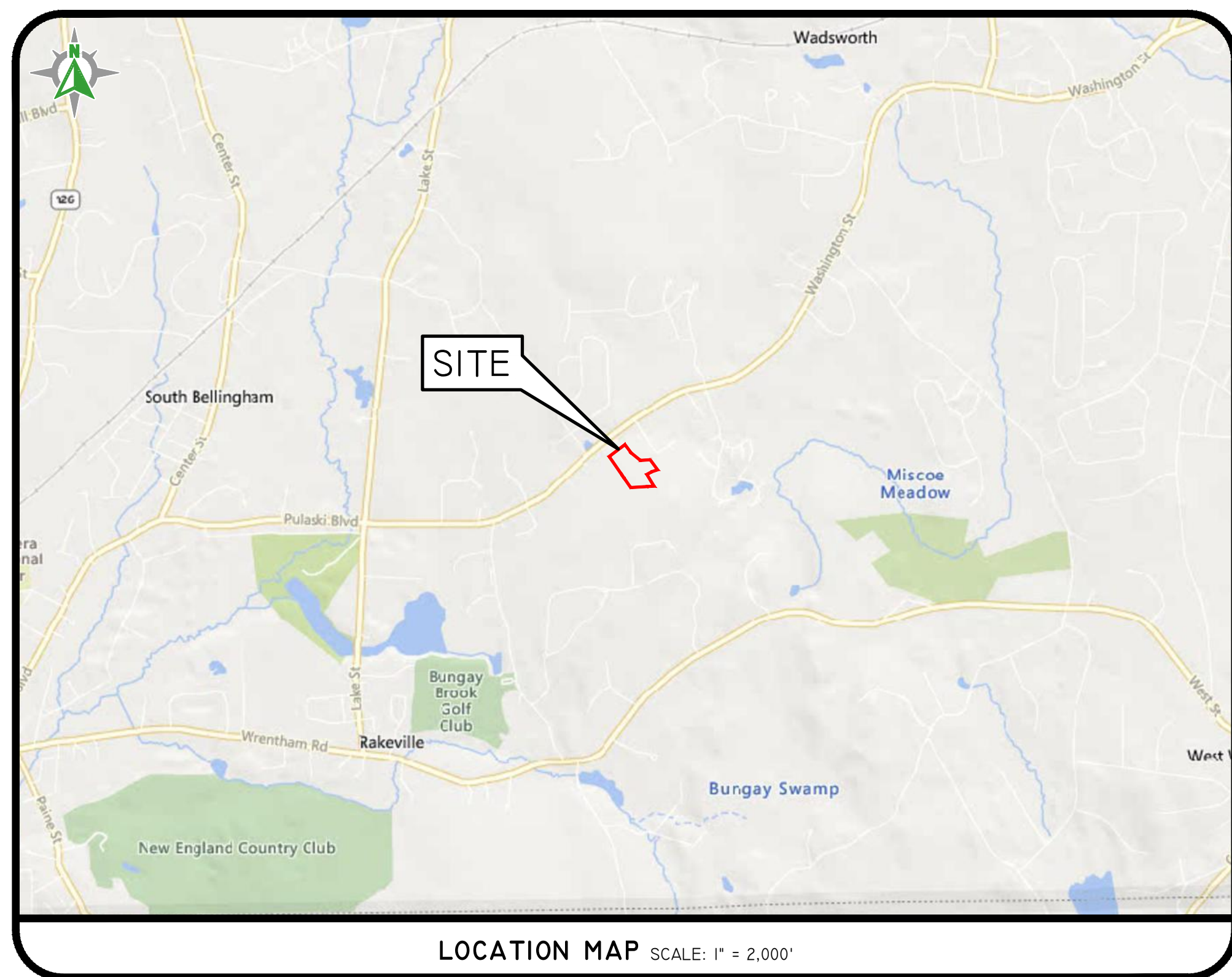


NOI SUBMISSION

LOUISE DRIVE EXTENSION

LOCATED ON LOUISE DRIVE
FRANKLIN, MASSACHUSETTS

ASSESSOR'S PLAT 339 LOTS 9, 13-16 & ASSESSOR'S PLAT 349 LOT 2



SHEET INDEX

- 1 COVER SHEET
- 2 AERIAL HALF MILE RADIUS
- 3 NOTES AND LEGEND
- 4 EXISTING CONDITIONS PLAN
- 5 SOIL EROSION & SEDIMENT CONTROL PLAN
- 6 SITE PLAN
- 7 GRADING AND DRAINAGE PLAN
- 8 PLAN AND PROFILE
- 9 POND COMPLEX DETAILS
- 10 WETLAND CROSSING PLAN
- 11 DETAIL SHEET

SWPPP / O&M
THE STORMWATER POLLUTION PREVENT PLAN (SWPPP)
AND STORMWATER OPERATION AND MAINTENANCE PLAN
(O&M) ARE REQUIRED DOCUMENTS WITH THIS PLAN SET
AND MUST BE MAINTAINED BY THE CONTRACTOR AND
OWNER ON SITE.

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THIS PLAN SET MUST NOT BE USED FOR CONSTRUCTION PURPOSES
UNLESS IT IS ACCOMPANIED BY THE STAMPED AND SIGNED
A REGISTERED PROFESSIONAL ENGINEER OF DIPRETE
ENGINEERING.

NOI	DATE	DESCRIPTION	DESIGN BY: B.E.G.	DRAWN BY: B.E.G.
6	06-09-2023	RESPONSE TO LOT 13 COMMENT	K.J.D.	
4	03-14-2023	RESPONSE TO COMMENTS	J.A.R.	
3	01-22-2023	NOT PREPARED FOR	W.E.G.	
2	01-22-2023	NOT PREPARED FOR	K.J.D.	
1	02-06-2024	NOI SUBMISSION	K.J.D.	
1	02-18-2024	NOI SUBMISSION	B.T.	

COVER SHEET

LOUISE DRIVE EXTENSION
ASSESSOR'S PLAT 339 LOTS 9, 13-16, & ASSESSOR'S PLAT 349 LOT 2
FRANKLIN, MASSACHUSETTS

PREPARED FOR:
PAUL LONGOBARDI
18 JAMES ST.
FRANKLIN, MASSACHUSETTS 02038

DE 438 NO. 552480 COPYRIGHT 2003 BY DIPRETE ENGINEERING ASSOCIATES, INC.

SHEET | OF 11

Z:\DEPT\PROJECTS\344-001 LOUISE DRIVE\AUTOCAD DRAWINGS\344-001-C\AERIAL.DWG PLOTTER: 3/31/2025

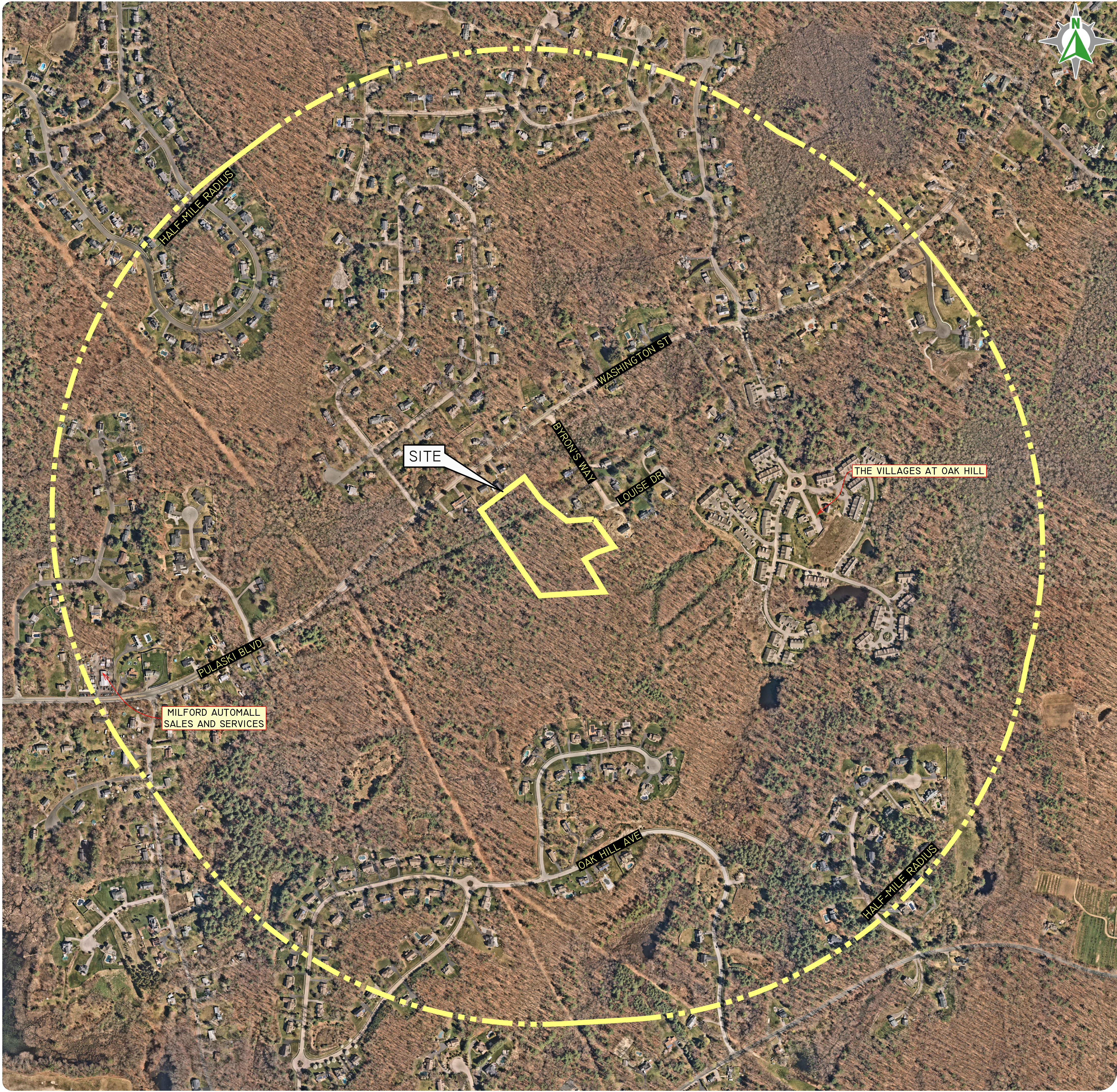
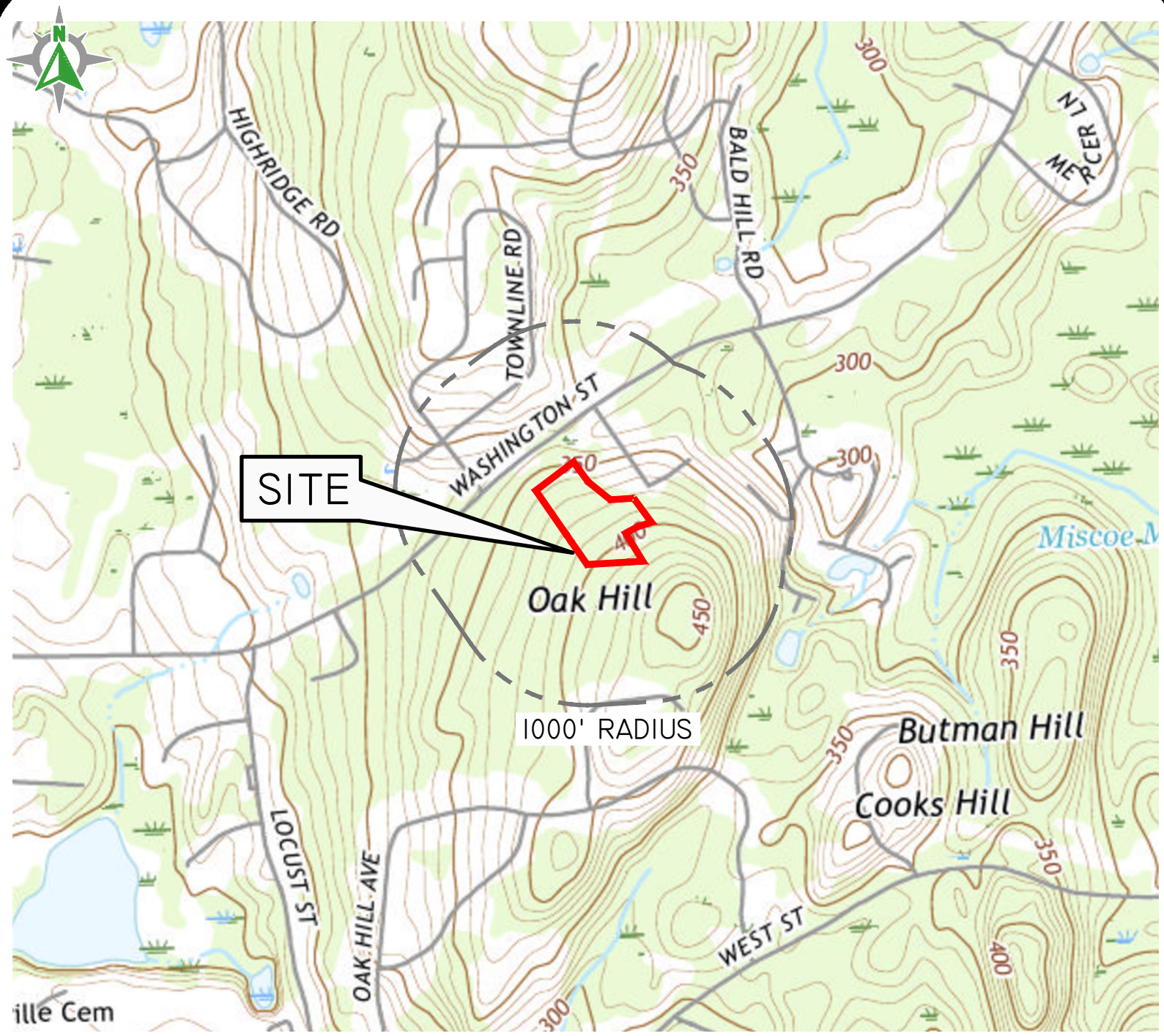


PHOTO OBTAINED FROM NEARMAP.
DATE OF PHOTOGRAPHY 04/09/2024.

SCALE: 1"=300'
0 150' 300' 600'



USGS MAP SCALE: 1"=1,000'

AERIAL HALF MILE RADIUS

LOUISE DRIVE EXTENSION

ASSESSOR'S PLAT 339 LOTS 9, 13-16, & ASSESSOR'S PLAT 349 LOT 2

FRANKLIN, MASSACHUSETTS

PREPARED FOR:

PAUL LONGOBARDI

18 JAMES ST.
FRANKLIN, MASSACHUSETTS 02038

THIS PLAN SET MUST NOT BE USED FOR CONSTRUCTION PURPOSES
UNLESS IT IS ACCOMPANIED BY THE PROFESSIONAL ENGINEER'S
SEAL AND SIGNATURE OF THE REGISTERED PROFESSIONAL ENGINEER OF DIPRETE
ENGINEERING.

DIPRETE ENGINEERING ONLY WARRANTS PLANS ON A DIPRETE
PROFESSIONAL ENGINEER OF DIPRETE ENGINEERING. DIPRETE
ENGINEERING DOES NOT WARRANT THE ACCURACY OF ANY
DATA OR INFORMATION PROVIDED BY ANY OTHER PARTY.
THE CLIENTS ASSUME RESPONSIBILITY FOR THE USE OF THE
METHODS, SAFETY, PRECAUTIONS AND REQUIREMENTS, AND OSHA
REQUIREMENTS IN THE IMPLEMENTATION OF THIS PLAN AND
DESIGN.
EXISTING UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE
ONLY. DIPRETE ENGINEERING ASSUMES NO RESPONSIBILITY FOR
THE LOCATION, DEPTH, OR CHARACTER OF ANY UTILITIES.
SEE "UTILITY NOTE" ON SHEET 3.

NO.	DATE	DESCRIPTION	DESIGN BY: B.E.G.
1	03/18/2024	NO SUBMISSION	B.T.
2	03/18/2024	NO SUBMISSION	B.T.
3	03/18/2024	NO SUBMISSION	B.T.
4	03/18/2024	NO SUBMISSION	B.T.
5	03/18/2024	RESPONSE TO COMMENTS	K.J.D.
6	03/18/2024	RESPONSE TO COMMENTS	K.J.D.
7	03/18/2024	NO SUBMISSION	B.T.
8	03/18/2024	NO SUBMISSION	B.T.
9	03/18/2024	NO SUBMISSION	B.T.
10	03/18/2024	NO SUBMISSION	B.T.



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GENERAL NOTES:

- THE SITE IS LOCATED ON THE TOWN OF FRANKLIN ASSESSOR'S PLAT 339 LOTS 9, 13-16 AND ASSESSOR'S PLAT 349 LOT 2.
- THE SITE IS APPROXIMATELY 8.9 ACRES AND IS ZONED RR-1.
- THE OWNERS OF AP 339 LOTS 9, 13-16 AND AP 349 LOT 2 ARE:

PAUL A. AND JOANNE LONGOBARDI
18 JAMES STREET
FRANKLIN, MA 02038
- THIS SITE IS LOCATED IN FEMA FLOOD ZONE X. REFERENCE FEMA FLOOD INSURANCE RATE MAP 2502C0302E, MAP REVISED JULY, 17 2012.

• ZONE X (UNSHADED) - THIS SITE IS LOCATED IN FEMA FLOOD ZONE X, WHICH ARE AREAS WHERE THERE IS MINIMAL FLOODING.
- THE BOUNDARY LINE AS SHOWN ON THE ENGINEERING PLAN SET DEPICTS THE RESULTS OF A BOUNDARY RETRACEMENT SURVEY AS PERFORMED BY DIPRETE ENGINEERING. THIS PLAN IS NOT TO BE CONSIDERED AS A BOUNDARY RETRACEMENT SURVEY PLAN AND IS NOT SUITABLE FOR RECORDING AS A SURVEY PLAN IN CONFORMANCE WITH THE RULES AND REGULATIONS AS STATED IN CMR 250 SECTION 6.00.
- ALL WORK PERFORMED HEREIN IS TO BE COVERED BY CURRENT EDITIONS OF THE MASSDOT HIGHWAY DIVISION CONSTRUCTION STANDARD DETAILS, TOWN OF FRANKLIN STANDARD SPECIFICATIONS AND DETAILS AND SPECIFICATIONS INCLUDED AS PART OF THE DRAWINGS. IN AREAS OF CONFLICT BETWEEN THE DIFFERENT SPECIFICATIONS, THE DESIGN PLANS AND PROJECT SPECIFICATIONS WILL TAKE PRECEDENCE OVER THE GENERAL SPECIFICATIONS AND THE CEOR WILL INTERPRET THE CONSTRUCTION REQUIREMENT. THE CONTRACTOR IS ADVISED TO SUBMIT A REQUEST FOR INFORMATION (RFI) FOR ANY AREAS OF CONFLICT BEFORE COMMITTING TO CONSTRUCTION.
- THE FOLLOWING DOCUMENTS ARE CONSIDERED PART OF THE PROJECT PLANS AND THE CONTRACTOR/OWNER MUST MAINTAIN THESE DOCUMENTS AS PART OF A FULL PLAN SET:
 - STORMWATER POLLUTION PREVENTION PLAN (SWPPP). THE SWPPP CONTAINS THE FOLLOWING:
 - EROSION CONTROL MEASURES
 - SHORT TERM MAINTENANCE
 - ESTABLISHMENT OF VEGETATIVE COVER
 - CONSTRUCTION POLLUTION PREVENTION
 - SEQUENCE OF CONSTRUCTION
 - OPERATION AND MAINTENANCE PLAN (O&M). THE O&M CONTAINS:
 - LONG TERM MAINTENANCE
 - LONG TERM POLLUTION PREVENTION

- THIS PLAN SET REFERENCES MASSDOT HIGHWAY DIVISION STANDARD DETAILS (DESIGNATED AS MASSDOT STD XXX.X.X). MASSDOT STANDARD DETAILS ARE AVAILABLE FROM MASSDOT AND ONLINE AT [HTTPS://WWW.MASS.GOV/LISTS/CONSTRUCTION-DETAILS](https://www.mass.gov/lists/construction-details)
- THE SITE IS TO BE SERVICED BY PRIVATE WELL AND PRIVATE OWTS.
- PROPOSED RIGHTS OF WAY ARE TO BE 56' WIDE WITH 26' WIDE PAVEMENT (13' TRAVEL LANES AND 1' SLANTED CURB ON EACH SIDE).
- THE DRAINAGE SYSTEM IS DESIGNED TO MEET THE FRANKLIN SUBDIVISION AND LAND DEVELOPMENT REGULATIONS WITH THE USE OF CATCH BASINS, CULVERTS, AND UNDERGROUND DRAINAGE BASINS. THE STORMWATER MANAGEMENT SYSTEM MEETS THE MASSDOT BEST MANAGEMENT PRACTICES.
- THE ROADWAY IS PROPOSED TO BE BUILT IN (I) PHASE
- SOIL EVALUATIONS WERE COMPLETED DIPRETE ENGINEERING ON 05-23-2024.
- WETLAND EDGE DELINEATED BY DIPRETE ENGINEERING AND SURVEYED BY DIPRETE ENGINEERING USING SUBMETER GPS ON 11-17-2023 AND 05-04-2024.
- ANY PROPRIETARY PRODUCTS REFERENCED IN THIS PLAN SET ARE REPRESENTATIVE OF THE MINIMUM DESIGN REQUIREMENTS FOR THE PURPOSE THEY PROPOSE TO SERVE. ALTERNATIVES TO ANY PROPRIETARY PRODUCT MAY BE SUBMITTED TO THE CEOR FOR CONSIDERATION, WHICH MUST BE ACCOMPANIED BY A COMPLETED "SUBSTITUTION REQUEST" CSI FORM 13.A (APRIL 2022 VERSION MODIFIED BY DIPRETE ENGINEERING 2023) - FORM AVAILABLE FROM DIPRETE ENGINEERING. SUBMISSION PACKAGE MUST INCLUDE APPROPRIATE SPECIFICATION SHEETS/DESIGN CALCULATIONS THAT DEMONSTRATE THE ALTERNATIVES MEET THE MINIMUM DESIGN PARAMETERS OF THE PRODUCT SHOWN ON THE PLANS. NO ALTERNATIVES MAY BE USED WITHOUT THE WRITTEN APPROVAL OF THE CEOR.
- THIS PLAN SET MAY REFERENCE AND/OR INCLUDE REPRODUCTIONS OF PROPRIETARY PRODUCTS/ DETAILS BY OTHERS, AND/OR THEIR ASSOCIATED SPECIFICATIONS. ANY REFERENCED OR REPRODUCED PROPRIETARY PRODUCT OR DETAIL BY OTHERS THAT IS SHOWN ON CEOR PLANS IS STRICTLY FOR INFORMATION/SPECIFICATION PURPOSES ONLY. DIPRETE ENGINEERING DOES NOT WARRANT ANY PROPRIETARY PRODUCTS, DETAILS BY OTHERS OR THEIR RESPECTIVE DESIGNS. IF A DIPRETE ENGINEERING PLAN INCLUDES A PROPRIETARY PRODUCT/DETAIL BY OTHERS (EITHER EXPLICITLY OR IMPLIED) AND IS NOT STAMPED BY A REGISTERED PROFESSIONAL ENGINEER AND/OR REGISTERED LANDSCAPE ARCHITECT OF DIPRETE ENGINEERING, SAID STAMP DOES NOT EXTEND TO ANY PORTION OF THE PROPRIETARY PRODUCT/DETAIL BY OTHERS OR ITS DESIGN.

LAYOUT AND MATERIALS:

- DIMENSIONS ARE FROM THE FACE OF CURB, FACE OF BUILDING, FACE OF WALL, AND CENTER LINE OF PAVEMENT MARKINGS UNLESS OTHERWISE NOTED.
- CURBING MUST BE 6" SLOPED GRANITE OR AS LABELED ON THE PLANS.
- SIDEWALK MUST BE CONCRETE OR AS LABELED ON THE PLANS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO MEET ALL SIGNAGE AND PAVEMENT MARKING REQUIREMENTS OF THE MUTCD AND AUTHORITIES HAVING JURISDICTION, REGARDLESS OF ITEMS SHOWN (OR NOT SHOWN) ON THIS PLAN SET. THIS INCLUDES (BUT MAY NOT BE LIMITED TO) SIGN TYPE, NUMBER OF SIGNS, POLE/ MOUNTING TYPE, PAVEMENT MARKING LOCATIONS/ TYPE/ WIDTH, MATERIALS, INSTALLATION METHODS, AND ANY ADDITIONAL SIGNS AND/OR MARKINGS THAT MAY BE REQUIRED. THE CONTRACTOR MUST NOTIFY DESIGN ENGINEER OF ANY MODIFICATIONS OR DISCREPANCIES PRIOR TO ORDERING OR INSTALLING SIGNAGE/ PAVEMENT MARKINGS.
- SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SCALED TO THEIR ACTUAL DIMENSIONS OR LOCATIONS ON THE DRAWINGS. THE CONTRACTOR MUST REFER TO THE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.
- THE HOUSES ARE NOT SHOWN ON PLANS AND WILL BE DESIGNED PRIOR TO FUTURE CONSERVATION COMMISSION AND BUILDING PERMIT APPLICATIONS AS APPLICABLE.
- CONTROL POINTS, PROPOSED BOUNDS, AND ANY EXISTING PROPERTY LINE MONUMENTATION DISTURBED DURING CONSTRUCTION MUST BE SET OR RESET BY A PROFESSIONAL LICENSED SURVEYOR.
- CONTRACTOR MUST NOT RELY SOLELY ON ELECTRONIC VERSIONS OF PLANS, SPECIFICATIONS, AND DATA FILES THAT ARE OBTAINED FROM THE CEOR. CONTRACTOR MUST VERIFY LOCATION OF PROJECT FEATURES IN ACCORDANCE WITH THE STAMPED PAPER COPIES OF THE PLANS AND SPECIFICATIONS THAT ARE SUPPLIED AS PART OF THE CONTRACT DOCUMENTS.
- ALL GUARDRAIL ONSITE MUST BE STEEL BACKED TIMBER GUARDRAIL WITH STEEL POSTS, IN CONFORMANCE WITH SECTION 5.4.1.10 "MERITIT PARKWAY AESTHETIC GUARDRAIL" OF THE AASHTO ROADSIDE DESIGN GUIDE 4TH EDITION 2011. ALTERNATIVE GUARDRAILS WILL BE CONSIDERED BY THE CEOR IF THEY ARE DOT APPROVED EQUAL AND ACCEPTABLE TO THE OWNER. ALTERNATIVES MUST BE APPROVED IN WRITING BY THE OWNER AND THE CEOR PRIOR TO CONSTRUCTION. GUARDRAIL IS REQUIRED AT ALL ROADWAYS/PARKING LOTS/PAVED TRAFFIC AREAS ADJACENT TO SLOPES WITH A HEIGHT GREATER THAN SIX FEET AT A 3:1 SLOPE AND ALL SLOPES WITH A HEIGHT GREATER THAN THREE FEET AT A 2:1 SLOPE, AND ALL RETAINING WALLS GREATER THAN TWO FEET IN HEIGHT. THE CONTRACTOR IS RESPONSIBLE TO MEET ANY AND ALL GUARDRAIL PROVISIONS THAT MAY BE REQUIRED BY THE AHJ.
- INFRARED TREATMENT OF PAVEMENT IS REQUIRED AT ALL CURB CUTS, ANY DISTURBED PAVEMENT ON ROADWAYS AND WHERE ANY NEW PAVEMENT MEETS EXISTING PAVEMENT.
- ALL EXISTING PAVEMENT MARKING REMOVED AS INCIDENTAL DURING CONSTRUCTION MUST BE REPLACED IN-KIND FOLLOWING COMPLETION OF CONSTRUCTION UNLESS OTHERWISE NOTED.
- NEW PAVEMENT MARKING MUST BE FAST DRYING TRAFFIC PAINT, MEETING THE REQUIREMENTS OF AASHTO M248 TYPE F. PAINT MUST BE APPLIED AS SPECIFIED BY THE MANUFACTURER.

SOIL INFORMATION:

(REFERENCE: USDA NATURAL RESOURCES CONSERVATION SERVICE)
SOIL NAME DESCRIPTION

Soil Code	Soil Description	HSG
103C	CHARLTON HILLS-ROCK OUTCROP COMPLEX, 15 TO 25 PERCENT SLOPES	A : B : D
104C	HOLLIS-ROCK OUTCROP-CHARLTON COMPLEX, 0 TO 15 PERCENT SLOPES	D : B : B

AS-BUILT NOTES:

ALL COMPONENTS OF THE DRAINAGE, SEWER, AND WATER SYSTEMS MUST BE FIELD LOCATED PRIOR TO COVERING. NOTIFY SURVEYOR A MINIMUM OF SEVENTY-TWO (72) HOURS IN ADVANCE OF NEED FOR FIELD LOCATION OF IMPROVEMENTS. SURVEYOR MUST PROVIDE OWNER AND CONTRACTOR WITH WRITTEN NOTICE OF COMPLETION OF FIELD WORK PRIOR TO CONTRACTOR COVERING IMPROVEMENTS. OWNER/DIPRETE ENGINEERING WILL NOT ACCEPT FIELD MEASUREMENTS FROM THE SITE CONTRACTOR.

SOIL EROSION AND SEDIMENTATION CONTROL NOTES:

- THE CONTRACTOR IS RESPONSIBLE FOR ALL SOIL EROSION AND SEDIMENT CONTROL ON SITE WHICH MUST BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE APPLICABLE REGULATIONS AND AUTHORITY HAVING JURISDICTION. THE CONTRACTOR IS TO NOTIFY THE CEOR, THE DIRECTOR OF PUBLIC WORKS, THE TOWN ENGINEER, AND THE CONSERVATION COMMISSION AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
- ALL EROSION CONTROL, INCLUDING (BUT NOT LIMITED TO) TEMPORARY SWALES, ETC. MUST BE INSTALLED PER THE LATEST EDITION OF THE MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS (MESCG) AND THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP). NOTE THE SOIL EROSION AND SEDIMENT CONTROL SHOWN ON THESE PLANS ARE THE MINIMUM QUANTITY/TYPE OF EROSION CONTROL DEVICES AND MATERIALS DEEMED REQUIRED BY THE CEOR TO MEET THE OBJECTIVES OF THE MESCG, BUT IS CONSIDERED A GUIDE ONLY. ADDITIONAL MEASURES/ALTERNATE CONFIGURATIONS MAY BE REQUIRED IN ORDER TO MEET THE MESCG BASED ON FACTORS INCLUDING (BUT NOT LIMITED TO) SITE PARAMETERS, WEATHER, INSPECTIONS AND UNIQUE FEATURES. THE SWPPP WILL CONTINUE TO EVOLVE THROUGHOUT CONSTRUCTION PHASES. PURSUANT TO NOTE 1 ABOVE, SWPPP REMAINS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL THE SITE IS FULLY STABILIZED AND/OR SWPPP RESPONSIBILITIES ARE ASSUMED BY THE OWNER IN WRITING.
- TEMPORARY SWALES MUST BE USED TO CONTROL RUNOFF DURING CONSTRUCTION OF THE PROPOSED SITE WORK. TEMPORARY SWALES MUST BE VEGETATED AFTER CONSTRUCTION. EROSION CONTROL MATS MUST BE INSTALLED, IF NECESSARY, TO PREVENT EROSION AND SUPPORT VEGETATION AFTER CONSTRUCTION IS COMPLETE AND TRIBUTARY AREAS TO THE SWALES HAVE BEEN STABILIZED. THE TEMPORARY SWALES MUST BE CLEARED AND FINAL DESIGN, INCLUDING INSTALLATION OF THE GRASS SWALES, TO BE PER THE DESIGN PLANS.
- ONCE THE TEMPORAL SEDIMENT TRAPS ARE NO LONGER REQUIRED AND ALL TRIBUTARY AREAS HAVE BEEN STABILIZED, THE TEMPORARY SEDIMENT TRAPS MUST BE CLEARED AND BROUGHT TO FINAL DESIGN GRADES.
- INLET PROTECTION MUST BE INSTALLED ON ALL CATCH BASINS ONCE CONSTRUCTED.
- FOR SEQUENCE OF CONSTRUCTION, PROJECT PHASING AND CONSTRUCTION PHASING, SEE SWPPP PLAN.
- CONTRACTOR MAY MODIFY SEQUENCE OF CONSTRUCTION WITH APPROVAL FROM THE CEOR AND OWNER.
- IF CONCRETE TRUCKS ARE WASHED OUT ON SITE, ALL WASHOUT MUST BE PERFORMED IN THE DESIGNATED CONCRETE WASHOUT AREA.
- SLOPES STEEPER THAN 3:1 REQUIRE TEMPORARY EROSION CONTROL BLANKETS. EROSION CONTROL BLANKETS TO BE NORTH AMERICAN GREEN OR APPROVED EQUAL AND INSTALLED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
- AT THE COMPLETION OF CONSTRUCTION AND PRIOR TO DEMOBILIZATION, CONTRACTOR MUST FLUSH AND CLEAN THE ENTIRE DRAINAGE NETWORK. ALL STRUCTURES AT DOWNSTREAM CONNECTION POINTS, WATER QUALITY SYSTEMS, DETENTION/INFILTRATION BASINS, SWALES, ETC. CLEANING MUST INCLUDE REMOVAL OF ALL SEDIMENTS AND DEBRIS FROM PIPES AND ALL DRAINAGE COMPONENTS. WASTE MATERIAL MUST BE LEGALLY DISPOSED OFF SITE, WHERE APPLICABLE. ALL PROPRIETARY UNITS ETC. CLEANING TO BE DONE IN ACCORDANCE WITH ALL MANUFACTURER REQUIREMENTS.

DEMOLITION NOTES:

- CONTRACTOR MUST NOTIFY "DIG SAFE" AT 811 (OR 1-888-344-7233) A MINIMUM OF 72 HOURS BEFORE EXCAVATING.
- CONTRACTOR MUST OBTAIN ALL FEDERAL, STATE, AND MUNICIPAL APPROVALS PRIOR TO THE START OF CONSTRUCTION.
- CONTRACTOR MUST PERFORM DAILY SWEEPING AT CONSTRUCTION ENTRANCE DURING DEMOLITION AND CONSTRUCTION TO MINIMIZE SEDIMENT ON EXTERNAL STREETS.
- ANY EXISTING BUILDING(S) AND PROPERTY PROPOSED TO REMAIN THAT ARE DAMAGED BY THE CONTRACTOR MUST BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR IS RESPONSIBLE FOR REMOVING AND LEGALLY DISPOSING (R&D) ALL MATERIALS INDICATED ON THE PLANS UNLESS SPECIFIED OTHERWISE HEREIN. R&D MATERIALS MUST INCLUDE BUT ARE NOT LIMITED TO PAVEMENT, GRAVEL, CATCH BASINS, MANHOLES, GRATES/FRAMES/COVERS, AND ANY EXCESS SOIL THAT IS NOT INCORPORATED INTO THE WORK.
- IN ADDITION TO THOSE AREAS SPECIFICALLY DESIGNATED ON THE PLANS, ALL DISTURBED AREAS, INCLUDING THE CONTRACTOR'S STOCKPILES, DRAG PILES, AND STAGING AREAS WITHIN THE LIMIT OF WORK, MUST BE RESTORED TO MATCH THE DESIGN PLANS.
- CONTRACTOR MUST DOCUMENT LOCATION OF ALL SUBSURFACE UTILITIES REMAINING IN PLACE AFTER DEMOLITION (ACTIVE AND INACTIVE/ABANDONED). LOCATION MUST BE DOCUMENTED BY FIELD SURVEY OR SWING TIES. COPIES OF LOCATION DOCUMENTATION MUST BE PROVIDED TO THE OWNER FOLLOWING COMPLETION OF DEMOLITION AND PRIOR TO START OF NEW CONSTRUCTION. A MARKER MUST BE INSTALLED TO FINISH GROUND AT ALL INSTALLED CAPS/PLUGS. THE MARKER CAN BE A POST IN CONSTRUCTION AREAS OR PAINTED ON A PERMANENT SURFACE.
- ACTIVE UTILITY LINES AND STRUCTURES NOT SPECIFICALLY NOTED ON PLANS, BUT WHICH ARE ENCOUNTERED TO BE IN CONFLICT WITH THE PROPOSED WORK, MUST BE EXTENDED, PROTECTED, OR REWORKED BY THE CONTRACTOR AS DIRECTED OR REQUIRED BY THE UTILITY ENTITY OR OTHERWISE UNLESS OTHERWISE NOTED.
- CONTRACTOR MUST COORDINATE THE CUTTING AND CAPPING OF ALL UTILITIES WITH THE OWNER, THE MUNICIPALITY, AND ALL APPLICABLE UTILITY ENTITIES HAVING JURISDICTION.
- INACTIVE SUBSURFACE UTILITIES NOT IN CONFLICT WITH THE PROPOSED WORK AREA MAY BE ABANDONED IN PLACE WITH WRITTEN PERMISSION FROM THE OWNER.

SEQUENCE AND ESTIMATED DATES OF CONSTRUCTION ACTIVITIES:

PHASE IA

- CONTRACTOR IS RESPONSIBLE FOR STORMWATER POLLUTION PREVENTION PLAN (SWPPP) ONSITE. SEQUENCE OF CONSTRUCTION PROVIDED MAY BE ADJUSTED TO FIELD CONDITIONS WARRANT WITH PRIOR APPROVAL FROM THE TOWN OR THEIR REPRESENTATIVE.
- CONSTRUCTION TO BEGIN IN THE FALL 2024, OR UPON RECEIPT OF ALL NECESSARY APPROVALS.
- SURVEY AND STAKE THE DRAINAGE BMPs (INFILTRATION BASIN, SEDIMENT FOREBAYS, SAND FILTER AND/OR OTHER DRAINAGE FEATURES), DRAIN LINES, AND LIMIT OF WORK FENCE.
- PLACE/INSTALL LIMIT OF WORK FENCE AND STRAW WATTLE AS SHOWN ON THE PLANS AND STAKED OUT IN THE FIELD. IN NO CASE IS THE LIMIT OF WORK TO EXTEND BEYOND THE SEDIMENTATION BARRIERS. INSTALL CONSTRUCTION ENTRANCE AND EXIT.
- INSPECTION OF EROSION CONTROL DEVICES ADJACENT TO THE BUFFER ZONES WILL BE DONE BY THE ENGINEER OF RECORD AND ONCE DETERMINED TO BE ACCURATE THE ENGINEER WILL SEND A LETTER TO THE CONSERVATION COMMISSION ATTESTING TO ACCURACY AND DESCRIBING ANY POTENTIAL CHANGES.
- BEGIN CLEARING OF DEBRIS IN AREAS AS INDICATED ON THE PLANS.
- INSTALL TEMPORARY SEDIMENTATION CONTROL MEASURES AND DEVICES AS SPECIFIED. THE PROPOSED SEDIMENT TRAPS (IF NEEDED) MUST BE USED DURING CONSTRUCTION AND PLACE IN SPECIFIED LOCATIONS OR ALTERNATE LOCATIONS AS APPROVED TO LIMIT SIZE OF WORK AREAS. INSTALL DIVERSION SWALE WHERE APPROPRIATE TO DIRECT STORMWATER TO THE SEDIMENT TRAPS (IF NEEDED).
- TOPSOIL IS TO BE STRIPPED AND STOCKPILED IN APPROVED LOCATIONS. TOPSOIL STOCKPILES ARE TO BE PROTECTED WITH STRAW WATTLE AND TEMPORARILY STABILIZED. EXCAVATE AS NEEDED.
- EXCAVATE AND INSTALL UNDERGROUND INFILTRATION SYSTEM AND ASSOCIATED DRAINAGE STRUCTURES. EXCAVATE AND INSTALL SAND FILTER, ROUGH GRADE AND STABILIZE PERIMETER AREAS NEAR BMPs. THE SAND FILTER MUST BE PERMANENTLY STABILIZED FOLLOWING FINISH GRADING.
- ROUGH GRADE PAVEMENT AREAS AND FINAL GRADE LANDSCAPE AREAS OF THE SITE WHILE LIMITING THE SIZE OF THE ACTIVE WORK AREA. STABILIZE PREVIOUS WORK AREA PRIOR TO MOVING TO NEW ACTIVE WORK AREA.
- ONCE THE WORK AREAS TRIBUTARY TO THE SEDIMENT TRAPS (IF NEEDED) AT THE SEDIMENT FOREBAY LOCATIONS ARE STABILIZED AFTER ROUGH GRADING, THE SEDIMENT TRAPS (IF NEEDED) CAN BE CONVERTED INTO THE PERMANENT SEDIMENT FOREBAYS. INSTALL PERMANENT ACCESS PATH AROUND SAND FILTER AND SEDIMENT FOREBAYS.
- INSTALL DRAIN PIPING, DRAINAGE MANHOLES AND CATCH BASINS BEGINNING AT THE SEDIMENT FOREBAY LOCATIONS AND WORKING UP GRADIENT TO THE UNDERGROUND INFILTRATION SYSTEM AND BYPASS MANHOLES. PROTECT DISCHARGE OUTLETS WITH RIP-RAP APRONS. PLACE EROSION CONTROLS AT THE DISCHARGE POINTS AND SEED THE SAND FILTER AND SEDIMENT FOREBAYS, AND DISTURBED AREAS OUTSIDE OF THE PAVING LIMITS. IF SEASON IS UNSUITABLE FOR SEEDING, THESE AREAS MAY BE STABILIZED USING AN APPROVED METHOD UNTIL SEEDING CAN BE COMPLETED. THE SAND FILTER IS TO BE PROTECTED FROM RUNOFF UNTIL ALL UNSTABILIZED AREAS ARE STABILIZED WITH VEGETATION.

PHASE IB

- INSTALL DRAIN PIPING, DRAINAGE MANHOLES AND CATCH BASINS FOR THE REMAINDER OF THE DRAINAGE NETWORK. WORK TO BE DONE WITHIN THE FIRST 24 HOURS OF THE START OF PAVING LIMITS. THE DRAINAGE NETWORKS ARE TO BE PROTECTED FROM RUNOFF UNTIL ALL UNSTABILIZED AREAS ARE STABILIZED WITH VEGETATION. INSTALL EROSION CONTROL MEASURES ON CATCH BASINS AS THEY ARE CONSTRUCTED.
- INSTALL RETAINING WALL TO SOUTHEAST OF THE ROAD.
- FINISH ROUGH GRADING IN THE PAVEMENTS AREA IN ACCORDANCE WITH THE SITE PLANS. INSTALL SUBGRADE, SUBBASE AND BASE COURSE AS SPECIFIED IN THE GEOTECHNICAL REPORT.
- PLACE BITUMINOUS ASPHALT BINDER PER SITE PLANS.
- ONCE THE MAJORITY OF THE SITE IS STABILIZED THE DRAINAGE BMPs AND DRAINAGE NETWORK MAY BE BROUGHT ONLINE WITH THE APPROVAL OF THE DESIGN ENGINEER.
- FINISH PERMANENT STABILIZATION, REPAIR DRAINAGE OUTLETS AND BASINS AS REQUIRED. TREE LIMBS, LEAVES, COBBLES, BOULDERS, ETC. MUST BE REMOVED FROM THE BOTTOM OF THE BASINS BEFORE THE APPLICATION OF TOPSOIL.
- SWEET THE ROADWAY TO REMOVE ALL SEDIMENTS.
- CONTRACTOR SHALL CLEAN AND FLUSH THE DRAINAGE STRUCTURES AND PIPES AT THE END OF CONSTRUCTION AND ALL ACCUMULATED SEDIMENTS IN THE SAND FILTER AND SEDIMENT FOREBAYS SHALL BE REMOVED.
- REMOVE ALL TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES FOLLOWING VEGETATIVE ESTABLISHMENT OF ALL DISTURBED AREAS.
- PRIOR TO ACTIVATION OF ALL UTILITIES (STORM), UTILITY COMPANY AND TOWN ENGINEER TO BE NOTIFIED 48 HOURS IN ADVANCE TO SCHEDULE FINAL INSPECTION.

GRADING, DRAINAGE, AND UTILITY NOTES:

- CONSTRUCTION TO COMMENCE SPRING 2025 OR UPON RECEIPT OF ALL NECESSARY APPROVALS.
- THE CONTRACTOR MUST COORDINATE WITH ALL OF THE APPROPRIATE UTILITY COMPANIES FOR AGREEMENTS TO SERVICE THE PROPOSED BUILDING. THIS MUST BE DONE PRIOR TO CONSTRUCTION. NO REPRESENTATIONS ARE MADE BY DIPRETE ENGINEERING THAT UTILITY SERVICE IS AVAILABLE.
- THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING FINISH GRADING AND DRAINAGE AROUND THE BUILDING TO ENSURE SURFACE WATER AND/OR GROUNDWATER ARE DIRECTED AWAY FROM THE STRUCTURE.
- PRIOR TO START OF CONSTRUCTION, CONTRACTOR MUST VERIFY EXISTING PAVEMENT ELEVATIONS AT INTERFACE WITH PROPOSED PAVEMENTS, AND EXISTING GROUND ELEVATIONS ADJACENT TO DRAINAGE OUTLETS TO ASSURE PROPER TRANSITIONS BETWEEN EXISTING AND PROPOSED FACILITIES. CONTRACTOR MUST NOTIFY DESIGN ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- ALL PROPOSED UNDERGROUND UTILITIES SERVING THE SITE AND BUILDINGS MUST BE COORDINATED WITH OWNER, ARCHITECT, AND ENGINEER PRIOR TO INSTALLATION.
- ALL RETAINING WALLS AND STEEP SLOPES ARE SUBJECT TO FINAL STRUCTURAL DESIGN. DIPRETE ENGINEERING IS NOT PROVIDING THE STRUCTURAL DESIGN OF THESE ITEMS. ALL WALLS AND STEEP SLOPES MUST BE DESIGNED AND BUILT UNDER THE DIRECTION OF A MASSACHUSETTS LICENSED PROFESSIONAL ENGINEER SUITABLY QUALIFIED IN GEOTECHNICAL ENGINEERING AND CERTIFIED TO THE OWNER PRIOR TO THE COMPLETION OF THE PROJECT. SHOP DRAWINGS MUST BE SUBMITTED PRIOR TO CONSTRUCTION. FINAL STRUCTURAL DESIGN MUST INCORPORATE THE INTENT OF THE GRADING SHOWN ON THESE PLANS AND ALL WORK MUST BE WITHIN THE LIMIT OF DISTURBANCE SHOWN ON THE PLANS.
- ALL CUT AND FILL WORK MUST BE DONE UNDER THE DIRECTION OF A PROFESSIONAL GEOTECHNICAL ENGINEER, WITH TESTING AND CERTIFICATION PROVIDED TO THE APPLICANT AT THE COMPLETION OF THE PROJECT. DIPRETE ENGINEERING IS NOT PROVIDING THE FILL SPECIFICATION, GEOTECHNICAL ENGINEERING, STRUCTURAL ENGINEERING SERVICES, OR SUPERVISION AS PART OF THESE DRAWINGS.
- MATERIAL STOCKPILES MUST NOT BE LOCATED IN THE RIGHT-OF-WAY, AND TRENCHES MUST NOT BE LEFT OPEN OVERNIGHT.
- ALL LOAM IN DISTURBED AREAS MUST BE STOCKPILED FOR FUTURE USE.
- IF EXCESS SOIL, TREES, ROCKS, BOULDERS, AND OTHER REFUSE, MUST BE DISCARDED OFF SITE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS. STUMPS MUST BE GROUND ON SITE OR REMOVED.
- AN AGENT OF THE TOWN SHALL OBSERVE NATIVE SOILS AFTER EXCAVATION FOR BASINS TO CONFIRM DESIGN ASSUMPTIONS.
- THE SITE WILL HAVE 6" SLOPED GRANITE CURBING. SITE GRADING/CONTOURS SHOWN ON THE PLANS DO NOT NECESSARILY REFLECT THE APPROPRIATE CURBING REVEAL. CONTRACTOR MUST INSTALL CURBING WITH APPROPRIATE REVEAL, UNLESS OTHERWISE NOTED.
- NO STUMP DUMPS ARE ALLOWED ON SITE.
- ALL DRAINAGE OUTFALLS ARE DESIGNED TO BE INSTALLED AT EXISTING GROUND ELEVATION. CONTRACTOR MUST IMMEDIATELY NOTIFY THE CEOR OF ANY DISCREPANCIES WHERE EXISTING GROUND IS HIGHER THAN OUTFALL DESIGN ELEVATION. ANY RESOLUTION OF DISCREPANCIES BY THE CONTRACTOR, UNLESS AUTHORIZED IN WRITING IN ADVANCE BY THE OWNER AND THE CEOR, IS DONE AT THE CONTRACTOR'S RISK.
- CONTRACTOR MUST PROVIDE SAW CUTTING AND FULL DEPTH PAVEMENT RESTORATION IN AREAS WHERE PAVEMENT AND/OR SIDEWALK IS REMOVED FOR UTILITY INSTALLATION.
- IF ROADWAY PAVEMENT COURSE IS NOT TO BE INSTALLED FOR 12 MONTHS OR MORE AFTER INSTALLATION OF DRAINAGE STRUCTURES, ALL CATCH BASIN RIMS MUST BE SET AT BINDER GRADE AND RAISED TO FINAL PAVEMENT GRADE PRIOR TO PLACEMENT OF SURFACE COURSE.
- CONTRACTOR MUST HOLD/ SUPPORT/ RESTORE ALL EXISTING UTILITY COMPONENTS INCLUDING (BUT NOT LIMITED TO) POLES, MAST ARMS AND ABOVEGROUND OBJECTS AS NECESSARY DURING THE PROPOSED WORKS AND ELECTRICAL INSTALLATION. CONTRACTOR MUST COORDINATE SAID WORKS WITH ALL ASSOCIATED UTILITY OWNERS ACCORDINGLY. ANY EXISTING ITEMS DAMAGED OR REMOVED AS INCIDENTAL DURING UTILITY CONNECTION/ ELECTRICAL INSTALLATION INCLUDING (BUT NOT LIMITED TO) CURB IN THE ROW MUST BE REPLACED IN KIND FOLLOWING COMPLETION OF WORK.

DRAINAGE

ALL DRAINAGE PIPING MUST BE HIGH-DENSITY POLYETHYLENE (HDPE), OR EQUAL, WITH WATERTIGHT JOINTS WHERE INSTALLED WITHIN THE SEASONAL HIGH GROUNDWATER. ALL STORMWATER PIPE WITHIN THE STATE'S RIGHT OF WAY MUST BE REINFORCED CONCRETE PIPE (RCP).

DRAINAGE STRUCTURES MUST BE AS FOLLOWS (UNLESS OTHERWISE NOTED ON PLANS):

- CATCH BASINS (CB): MASSDOT STD. 201.0.0 OR APPROVED EQUAL.
- FLAT TOP CATCH BASINS (CB FLAT TOP): SUTCLIFFE COMPANIES 4" DIA CATCH BASIN SRP-CB4 (ALTERNATE FLAT TOP AASHTO HS-20), 4" DIA LOW PROFILE FLAT TOP SRP-OT4 OR APPROVED EQUAL. SEE PLANS FOR ALTERNATE STRUCTURE DIAMETERS WHERE REQUIRED.
- CATCH BASIN FRAMES: MASSDOT STD. 201.6.0 OR APPROVED EQUAL.
- DRAINAGE MANHOLES (DMH): MASSDOT STD. 202.4.0 OR APPROVED EQUAL.
- DRAINAGE MANHOLE FRAMES AND COVERS: MASSDOT STD. 202.6.0 OR APPROVED EQUAL.
- DOWNSTREAM DEFENDERS (DD) BY HYDRO INTERNATIONAL OR APPROVED EQUAL.
- [HTTPS://WWW.HYDRO-INT.COM/EN/RESOURCES/DOWNSTREAM-DEFENDER-PDF-OR-DWG-DRAWINGS](https://www.hydro-int.com/en/resources/downstream-defender-pdf-or-dwg-drawings)
- FOR ALL OTHER DRAINAGE STRUCTURES: IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE APPROPRIATE STRUCTURE TOP REQUIRED (E.G. CONE TOP, FLAT TOP ETC) TO MEET THE DESIGN PARAMETERS AS SHOWN ON THESE PLANS, INCLUDING (BUT NOT LIMITED TO) THE RELATIONSHIP BETWEEN FINISH SURFACE ELEVATION/ DEPTH TO PIPE INVERTS AND MEETING MANUFACTURER/ AHJ REQUIREMENTS & SPECIFICATIONS.

FUTURE ELECTRIC/TELECOM/GAS

PROPOSED GAS, ELECTRIC, CABLE AND DATA UTILITIES ARE SHOWN SCHEMATICALLY AND ARE PROPOSED TO BE UNDERGROUND. OWNER AND CONTRACTOR MUST COORDINATE FINAL DESIGN WITH APPROPRIATE UTILITY COMPANIES. ALL WORK MUST BE IN ACCORDANCE WITH EACH UTILITY COMPANY'S STANDARDS AND DETAILS, AS WELL AS LOCAL AND FEDERAL REGULATIONS. THIS INCLUDES BUT IS NOT LIMITED TO POLES, TRANSFORMERS, PULL BOXES, CONCRETE PADS, CONCRETE ENCASEMENTS AND CONDUITS. CONNECTION POINTS FOR ELECTRIC AND TELECOM UTILITIES, AT THE EXISTING INFRASTRUCTURE, ARE CURRENTLY SHOWN AS UNDERGROUND UTILITIES. THESE UTILITIES MAY BE UNDERGROUND OR OVERHEAD AND MUST BE COORDINATED WITH NATIONAL GRID/APPROPRIATE UTILITY AUTHORITY PRIOR TO CONSTRUCTION.

FUTURE SITE LIGHTING

SITE LIGHTING (TEMPORARY AND PERMANENT) MUST BE DIRECTED AWAY FROM AND SHIELDED FROM ENVIRONMENTALLY SENSITIVE AREAS AND ABUTTING LANDS. EXACT LOCATIONS OF LIGHT POLE MUST BE COORDINATED WITH OTHER UTILITIES AND MUST BE LOCATED WITHIN THE STREET RIGHTS OF WAY. FINAL LIGHTING AND CONDUIT LOCATIONS BY OTHERS.

TRAFFIC NOTES:

- ALL TRAFFIC CONTROL MUST CONFORM TO THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) CURRENT EDITION.
- DURING CONSTRUCTION, TRAFFIC CONES MUST BE USED FOR SEPARATION OF ACTIVE TRAFFIC FROM WORK ZONE PER MUTCD REQUIREMENTS.
- DURING CONSTRUCTION FLAGGERS MUST BE EMPLOYED TO ENSURE SAFETY FOR INTERACTION OF CONSTRUCTION VEHICLES AND ACTIVE TRAFFIC.
- ALL SIGNS, FLAGGERS, TRAFFIC CONTROL DEVICES, AND TEMPORARY TRAFFIC ZONE ACTIVITIES MUST MEET THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC (MUTCD) LATEST EDITION AND SUBSEQUENT ADDENDA.
- TEMPORARY CONSTRUCTION SIGNS MUST BE MOUNTED ON MASSDOT APPROVED SUPPORTS AND MUST BE REMOVED OR COVERED WHEN NOT APPLICABLE.

PLANTING NOTES:

- PLANTING MUST CONFORM TO TOWN OF FRANKLIN MA LANDSCAPE REQUIREMENTS.
- CONTRACTOR TO PROVIDE A TWO (2) YEAR GUARANTEE FOR ALL MATERIALS. CONTRACTOR GUARANTEES THAT PLANTS WILL REMAIN HEALTHY FOR TWO (2) GROWING SEASONS. CONTRACTOR TO MAINTAIN MANHOLES, PROTECT DISCHARGE OUTLETS WITH RIP-RAP APRONS. PLACE EROSION CONTROLS AT THE DISCHARGE POINTS AND SEED THE SAND FILTER AND SEDIMENT FOREBAYS, AND DISTURBED AREAS OUTSIDE OF THE PAVING LIMITS. IF SEASON IS UNSUITABLE FOR SEEDING, THESE AREAS MAY BE STABILIZED USING AN APPROVED METHOD UNTIL SEEDING CAN BE COMPLETED. THE SAND FILTER IS TO BE PROTECTED FROM RUNOFF UNTIL ALL UNSTABILIZED AREAS ARE STABILIZED WITH VEGETATION.
- ALL PLANT MATERIAL SHALL CONFORM, IN ALL RESPECTS, TO THE GUIDELINES OF "THE AMERICAN STANDARD FOR NURSERY STOCK," LATEST EDITION, PUBLISHED BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION, INC. ALL PLANTS SHALL BE NURSERY GROWN AND SHALL HAVE BEEN GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT FOR AT LEAST TWO (2) YEARS.
- PLANT SUBSTITUTION SELECTION MUST BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- CREATE SAUCER AROUND INDIVIDUAL PLANTS CAPABLE OF HOLDING WATER. ALL PLANTS TO BE INSTALLED RETAINING WALL TO SOUTHEAST OF THE ROAD.
- WATERING SHALL BE MADE AS REQUIRED TO KEEP PLANTS FROM WILTING AND DRYING OUT UNTIL FINAL ACCEPTANCE.
- RECOMMENDED DATES FOR PLANTING ARE MARCH 15 TO JUNE 15 AND SEPTEMBER 15 TO NOVEMBER 15.
- LOAM & SEED SHALL CONFORM TO TOWN REGULATIONS.
- ANY DISTURBED AREA DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL STATE BY THE CONTRACTOR BEFORE COMPLETION OF THE PROJECT.
- SEED MIX AND PLANTINGS SHALL REFLECT NATIVE VEGETATION.
- CONTRACTOR TO LOAM AND SEED ALL DISTURBED AREAS USING AN EPOXY ENHANCED GRASS SEED MIX AT A RATE OF 5-7 LBS. PER 1000 SF OR AS DIRECTED BY TOWN, ANY SOD (TURF) UTILIZED SHALL BE DROUGHT TOLERANT ENDOPHYTES OR PREDOMINANTLY FESCUE IN CHARACTER. STORMWATER SYSTEMS TO BE SEEDER PER POND DETAILS IN SITE DRAWINGS.

MASSDOT NOTES:

- ALL WORK TO BE DONE WITHIN THE STATE RIGHT OF WAY MUST CONFORM TO THE MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES LATEST REVISION. STANDARD DETAILS FOR THIS WORK ARE THE MASSDOT HIGHWAY DIVISION CONSTRUCTION STANDARD DETAILS LATEST EDITION.
- ALL TRAFFIC CONTROL MUST CONFORM TO THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION, INCLUDING ALL REVISIONS.
- LANE OR SHOULDER CLOSURES MUST NOT BE PERFORMED WITHIN THE STATE ROW DURING PEAK TRAFFIC HOURS.
- SEWER AND WATER CONNECTIONS WITHIN THE STATE RIGHT OF WAY WILL REQUIRE A SEPARATE MASSDOT UTILITY PERMIT, WHICH CONTRACTOR MUST OBTAIN BEFORE CONSTRUCTION.
- THE DRAINAGE SYSTEM IS DESIGNED TO DECREASE BOTH STORMWATER RUNOFF RATE, AND STORMWATER RUNOFF VOLUME TO THE STATE RIGHT OF WAY FROM PRE-DEVELOPMENT TO POST-DEVELOPMENT. THERE WILL BE NO INCREASE IN RUNOFF TO THE STATE RIGHT OF WAY FROM THE PROPOSED DEVELOPMENT.

ABBREVIATIONS LEGEND

ADA	AMERICANS WITH DISABILITY ACT	(M)	MEASURED
AHJ	AUTHORITY HAVING JURISDICTION	MEP	MECHANICAL/ELECTRICAL/ PLUMBING ENGINEER
AP	ASSESSOR'S PLAT	N/F	NEW OR FORMERLY
ARCH	ARCHITECT	OHW	OVERHEAD WIRE
BC	BOTTOM OF CURB	PE	POLYETHYLENE
BT	BOTTOM OF TESTHOLE	®	PROPERTY LINE
BIT	BITUMINOUS (BERM)	PR	PROPOSED
BIO	BIORETENTION	PVC	POLYVINYL CHLORIDE
BS	BASEMENT SLAB ELEVATION	R	RADIUS
BW	FINISHED GRADE AT BOTTOM OF WALL	R&D	REMOVE AND DISPOSE
CB	CATCH BASIN	RCP	REINFORCED CONCRETE PIPE
(C)	CALCULATED	RL	ROOT LEADER
CL	CENTERLINE	ROW	RIGHT-OF-WAY
(CA)	CORNER ANGLE	S	SLOPE
CLDIP	CONCRETE LINDED DUCTILE IRON PIPE	SD	SUBDRAIN
CEOR	CIVIL ENGINEER OF RECORD. DIPRETE ENGINEERING UNLESS DESIGNATED OTHERWISE BY OWNER	SED	SEDIMENT FOREBAY
CL	CLEAR OUT	SF	SQUARE FOOT
CONC	CONCRETE	SFL	STATE FREEWAY LINE
(D)	DEED	SFM	SEWER FORCE MAIN
DCB	DOUBLE CATCH BASIN	SG	SLAB ON GRADE ELEVATION
DI	DROP INLET	SHL	STATE HIGHWAY LINE
DMH	DRAINAGE MANHOLE	SMH	SEWER MANHOLE
DNDF	SAND FILTER	SS	SIDE SLOPE
DP	DETENTION POND	STA	STATION
ELEV	ELEVATION	TC	TOP OF CURB
EOP	EDGE OF PAVEMENT	TD	TRENCH DRAIN
ESC	EROSION AND SEDIMENT CONTROL	TF	TOP OF FOUNDATION
EX	EXISTING	TRANS	TRANSITION
FES	FLARED END SECTION	TW	TOP OF WALL (FINISHED GRADE AT TOP OF WALL)
FFE	FINISH FLOOR ELEVATION	TYP	TYPICAL
GS	GARAGE SLAB ELEVATION	UDS	UNDERGROUND
GW	GROUND WATER TABLE	UIS	UNDERGROUND
HW	HEADWALL	UP	UTILITY POLE
HC	HIGH CAPACITY CATCH BASIN GRATE	WQ	WALKOUT ELEVATION
HOPE	HIGH DENSITY POLYETHYLENE		
ID	INLINE DRAIN		
INV	INVERT		
IP	INFILTRATION POND		
LARCH	LANDSCAPE ARCHITECT		
LF	LINEAR FEET		
LOD	LIMIT OF DISTURBANCE		
LP	LIGHT POLE		

SITE CALL OUTS LEGEND

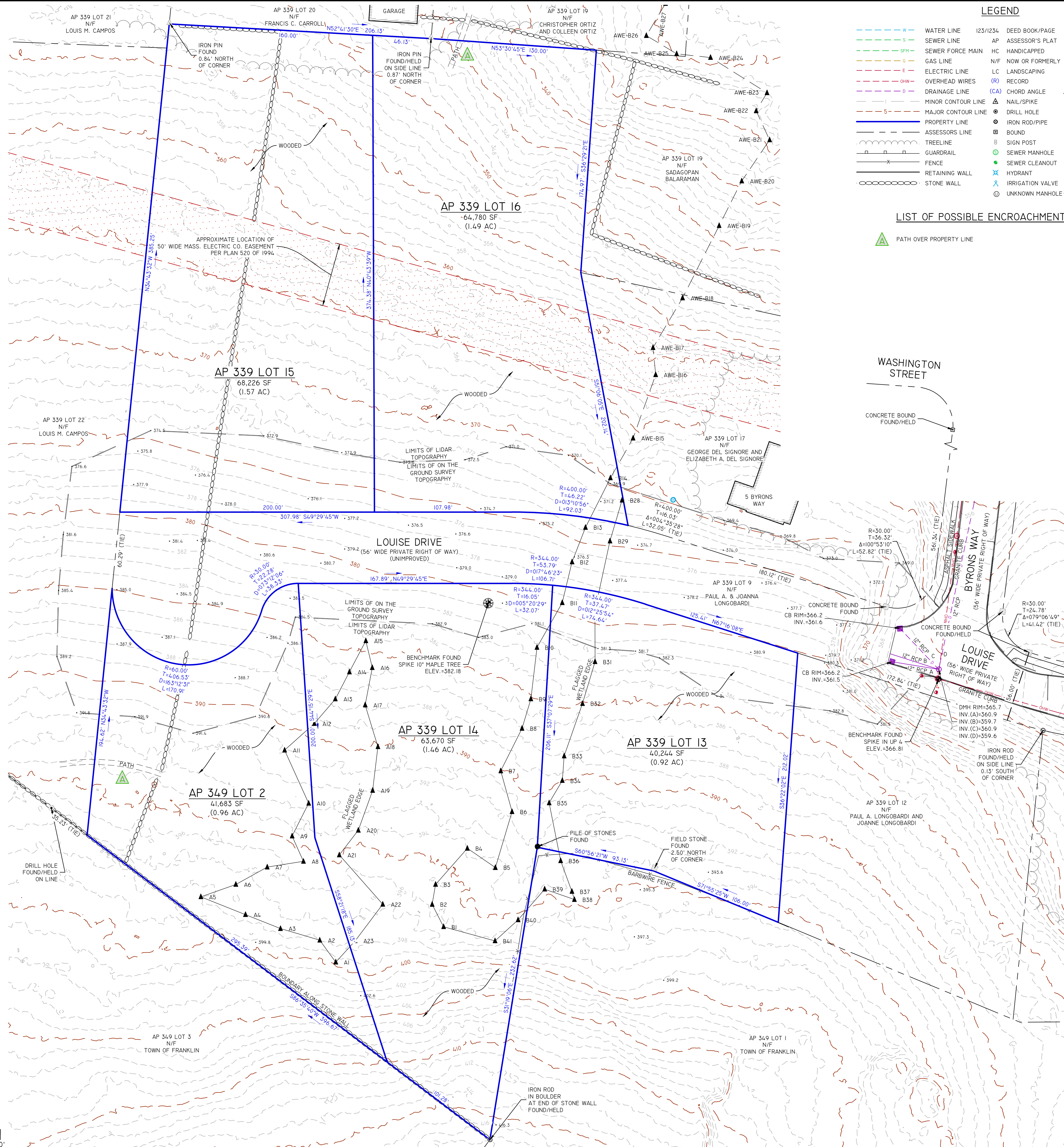
NOT ALL ITEMS SHOWN WILL APPEAR ON PLANS

BB	BITUMINOUS BERM (SEE DETAIL)
MCC	MONOLITHIC CONCRETE CURB (SEE DETAIL)
VCC	VERTICAL CONCRETE CURB (PRE CAST MASSDOT STD OR APPROVED EQUAL)
SCC	SLOPED CONCRETE CURB (PRECAST, MASSDOT STD, OR APPROVED EQUAL)
VGC	VERTICAL GRANITE CURB (MASSDOT STD OR APPROVED EQUAL)
SGC	SLOPED GRANITE CURB (MASSDOT STD OR APPROVED EQUAL)
106.1.0	MASSDOT STD HOT MIX ASPHALT BERM TYPE A
106.2.0	MASSDOT STD HOT MIX ASPHALT CURBS
106.3.0	MASSDOT STD METHOD OF SETTING VERTICAL CURB
107.2.0	MASSDOT STD WHEELCHAIR RAMPS LESS THAN 12'-4" SIDEWALK
107.2.1	MASSDOT STD WHEELCHAIR RAMP ON NARROW SIDEWALK WITH DETECTABLE WARNING PANEL
210.2.0	MASSDOT STD DITCH CHECK DAMS FOR EROSION CONTROL
210.3.0	MASSDOT STD HAY BALES AND SILT FENCES FOR EROSION CONTROL
4DY	4" EPOXY RESIN PAVEMENT MARKINGS-DOUBLE YELLOW
4W	4" EPOXY RESIN WHITE MARKINGS
4W45	4" WHITE STRIPING 2' ON CENTER AT 45°
6WS	6" WHITE EPOXY RESIN PAVEMENT MARKINGS-SKIP PATTERN
6W	6" WHITE EPOXY RESIN PAVEMENT MARKINGS
12WS	STOP LINE (REFERENCE MUTCD SECTION 3B.16)
ADA	ADA SPACE PAVEMENT MARKINGS MUST COMPLY WITH ALL ADA AND MUTCD REGULATIONS AND REQUIREMENTS.
ADAR	ADA CURB RAMP MUST COMPLY WITH ALL ADA REGULATIONS AND REQUIREMENTS.
ADAV	VAN ADA SPACE PAVEMENT MARKINGS MUST COMPLY WITH ALL ADA AND MUTCD REGULATIONS AND REQUIREMENTS.
CWK	CROSSWALK PAVEMENT MARKINGS. SOLID 2" WHITE LINES SPACED 4" OC (REFERENCE MUTCD SECTION 3B.18)
LOD	LIMIT OF DISTURBANCE
LS	4" LOAM AND SEED
TB	CONCRETE THRUST BLOCK
YL	YIELD LINE (REFERENCE MUTCD SECTION 3B.16)

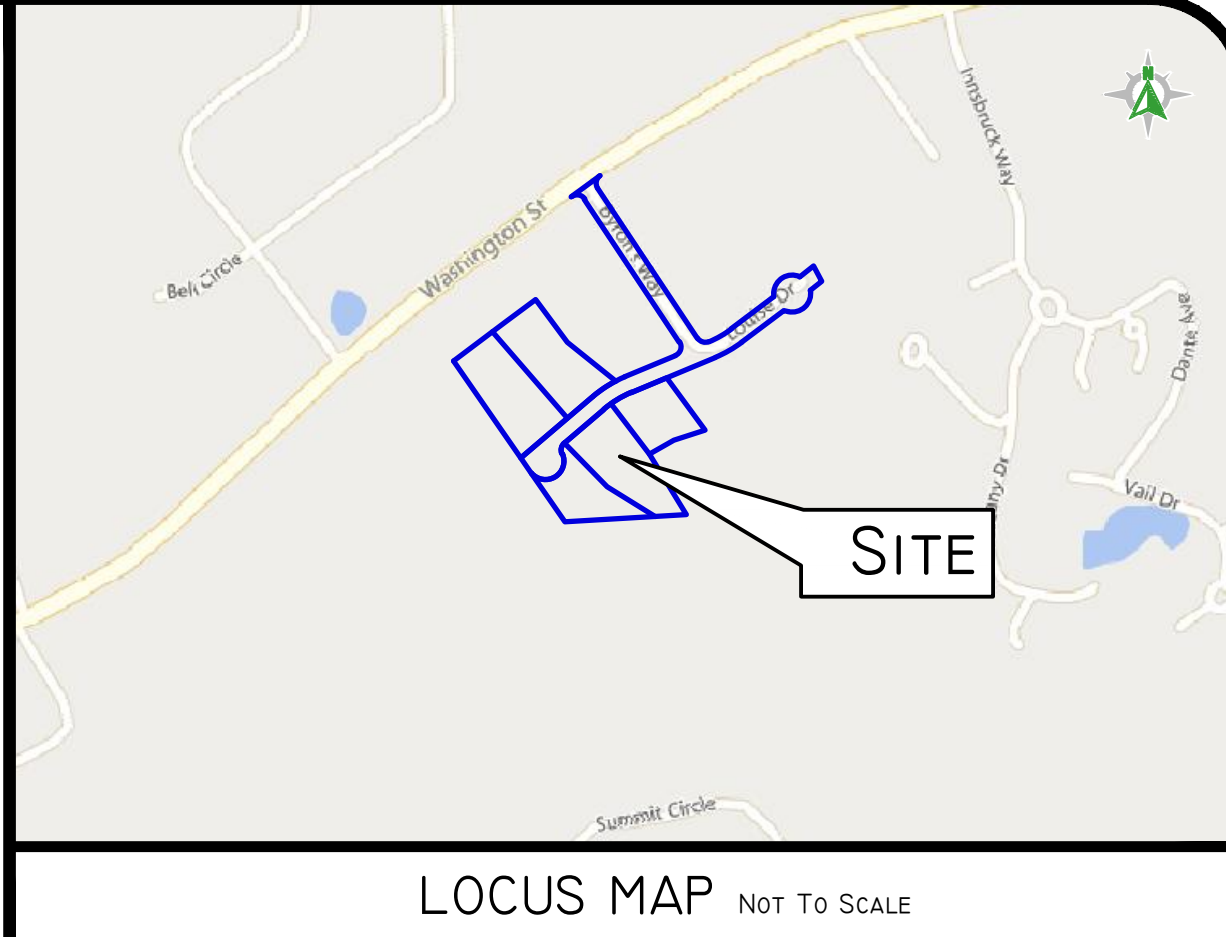
EXISTING LEGEND

(AS SHOWN ON PROPOSED PLANS)
NOT ALL ITEMS SHOWN WILL APPEAR ON PLANS

	PROPERTY LINE		NAIL FOUND/SET
	ASSESSORS LINE		DRILL HOLE FOUND/SET
	BUILDING		IRON ROD FOUND/SET
	BRUSHLINE		BOUND FOUND/SET
	TREELINE		SIGN
	GUARDRAIL		BOLLARD
	FENCE		SOIL EVALUATION
	RETAINING WALL		CATCH BASIN
	STONE WALL		DOUBLE CATCH BASIN
	MINOR CONTOUR LINE		DMH DRAINAGE MANHOLE
	MAJOR CONTOUR LINE		FLARED END SECTION
	WATER LINE		GUY POLE
	SEWER LINE		ELECTRIC MANHOLE
	SEWER FORCE MAIN		UTILITY/POWER POLE
	GAS LINE		LIGHTPOST
	ELECTRIC LINE		SMH SEWER/SEPTIC MANHOLE
	OVERHEAD WIRES		SEWER VALVE
	DRAINAGE LINE		CLEANOUT
	SOILS LINES		HYDRANT
	25' BUFFER		IRRIGATION VALVE
	50' BUFFER		WATER VALVE
	100' BUFFER		WELL
	200' BUFFER		MONITORING WELL
	STREAM BANK LINE		UNKNOWN MANHOLE
	WETLAND LINE & FLAG		GAS VALVE
	STATE HIGHWAY LINE		BENCH MARK
	STATE FREEWAY LINE		STREAM FLOW DIRECTION
	FEMA BOUNDARY		



SCALE: 1"=40'

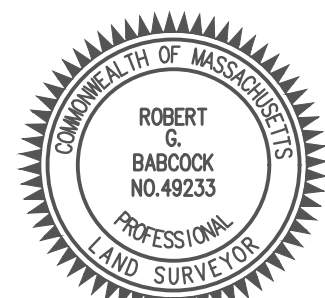


- GENERAL NOTES
- THE PARCELS ARE FOUND ON ASSESSOR'S PLAT 339, LOTS 13-16 AND ASSESSORS PLAT 349, LOT 2 IN THE TOWN OF FRANKLIN, NORFOLK COUNTY, MASSACHUSETTS.
 - THE OWNER PER DEED BOOK 5613, PAGE 312 IS PAUL A. LONGOBARDI AND JOANNE LONGOBARDI.
 - THIS SITE IS LOCATED IN FEMA FLOOD ZONE X. REFERENCE FEMA FLOOD INSURANCE RATE MAP 2502IC0312E, MAP REVISED JULY 17, 2012. THIS DESIGNATION MAY CHANGE BASED UPON REVIEW BY A FLOOD ZONE SPECIALIST OR BY THE RESULTS OF A COMPREHENSIVE FLOOD STUDY.
 - THE PARCEL IS ZONED RURAL RESIDENTIAL 1 BASED ON THE FRANKLIN, MASSACHUSETTS ZONING DISTRICTS MAP. ANY OVERLAY DISTRICTS, SPECIAL PERMITS OR VARIANCES SPECIFIC TO THIS SITE ARE NOT TAKEN INTO CONSIDERATION. PLEASE CONTACT THE ZONING DEPARTMENT FOR ANY ADDITIONAL INFORMATION OR FOR A CERTIFICATE OF ZONING.
 - THERE WERE NO CEMETERIES, GRAVE SITES AND OR BURIAL GROUNDS OBSERVED WITHIN THE LIMITS OF THE SURVEY.
 - FIELD SURVEY PERFORMED BY DIPRETE ENGINEERING ON OCTOBER 25 & NOVEMBER 17, 2023. THIS PLAN REFLECTS ON THE GROUND CONDITIONS AS OF THAT DATE.
 - ELEVATIONS SHOWN HEREON, IN U.S. SURVEY FEET, ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), AS DETERMINED BY DIPRETE ENGINEERING USING REAL TIME KINEMATIC G.P.S. OBSERVATIONS.
 - THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT. DIPRETE ENGINEERING IS NOT RESPONSIBLE FOR ANY UNKNOWN OR UNRECORDED EASEMENTS, DEEDS OR CLAIMS THAT A TITLE REPORT WOULD DISCLOSE.
 - WHERE INDICATED ON THE PLAN, THE CONTOUR DATA DEPICTED ON THIS PLAN EXCLUSIVELY RELIES ON POINT DATA SOURCED FROM MASSGIS. THIS DATA ORIGINATES FROM THE UTILIZATION OF AIRBORNE LIDAR TECHNOLOGY WITHIN THE SPECIFIED REGION, CONDUCTED BY THE STATE OF MASSACHUSETTS BETWEEN 2010 AND 2014. IT IS IMPORTANT TO NOTE THAT DIPRETE ENGINEERING HAS NOT VERIFIED THE POSITIONAL ACCURACY AND RELIABILITY OF THIS DATA. CONSEQUENTLY, THE DATA IS SUSCEPTIBLE TO MODIFICATIONS THAT MAY BE UNCOVERED THROUGH A COMPREHENSIVE FIELD SURVEY.
 - WHERE INDICATED ON THE PLAN, THE CONTOUR DATA DEPICTED IS BASED ON AN ON THE GROUND SURVEY PERFORMED BY DIPRETE ENGINEERING ON NOVEMBER 17, 2023.
 - WETLAND LOCATIONS SHOWN BASED ON FIELD SURVEY BY DIPRETE ENGINEERING. WETLAND FLAGS WERE DELINEATED BY DIPRETE ENGINEERING. WETLAND FLAGS WERE LOCATED ON OCTOBER 10 & NOVEMBER 17, 2023.

- PLAN REFERENCES
- PLAN 195 OF 1979.
 - PLAN 469 OF 1979.
 - PLAN 520 OF 1994.
 - PLAN 345 OF 2002.
 - PLAN 63 OF 2011.

CERTIFICATION

I CERTIFY THAT THIS ACTUAL SURVEY WAS MADE ON THE GROUND IN ACCORDANCE WITH THE RULES AND REGULATIONS AS STATED IN CMR 250 SECTION 6.00.



ROBERT G. BABCOCK, PLS #49233

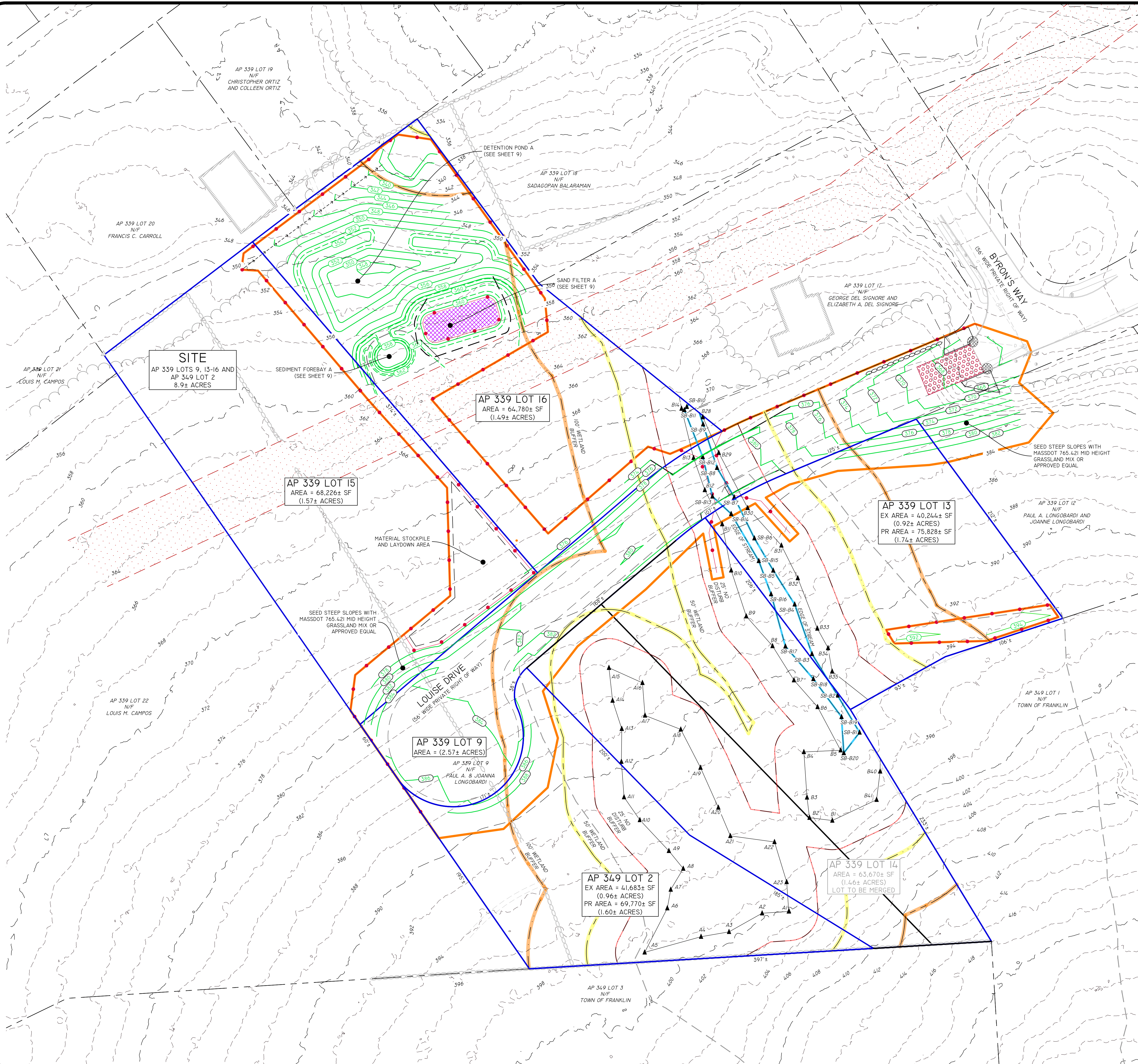
EXISTING CONDITIONS PLAN

LOUISE DRIVE
ASSESSORS PLAT 339, LOTS 13-16 & ASSESSORS PLAT 349, LOT 2
FRANKLIN, MASSACHUSETTS

PREPARED FOR
PAUL LONGOBARDI
18 JAMES STREET
FRANKLIN, MASSACHUSETTS 02038

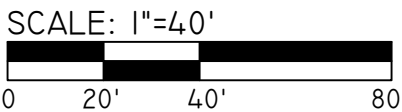
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Z:\BENHURPROJECTS\3349-001 LOUISE DRIVE\AUTOCAD DRAWINGS\3349-001-PLAN\DWG PLOTTER: 4/2/2025



SOIL EROSION CONTROL LEGEND

- LIMIT OF DISTURBANCE (WITH SEDIMENT CONTROL)
- EROSION CONTROL (12" MULCH LOG)
- LIMIT OF DISTURBANCE (NO SEDIMENT CONTROL)
- CONSTRUCTION ENTRANCE
- INFILTRATING AREA (12" MULCH LOG)
- FINAL CONTOUR GRADE
- INLET SEDIMENT CONTROL



SOIL EROSION & SEDIMENT CONTROL PLAN

LOUISE DRIVE EXTENSION
ASSESSOR'S PLAT 339 LOTS 9, 13-16, & ASSESSOR'S PLAT 349 LOT 2
FRANKLIN, MASSACHUSETTS

PREPARED FOR:
PAUL LONGOBARDI
18 JAMES ST.
FRANKLIN, MASSACHUSETTS 02038

THIS PLAN SET MUST NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS IT IS ACCOMPANIED BY THE ASSIGNED PROFESSIONAL ENGINEER OF DIPRETE.

DIPRETE ENGINEERING ONLY WARRANTS PLANS ON A DIPRETE PROFESSIONAL ENGINEER OF DIPRETE ENGINEERING. DIPRETE ENGINEERING SHALL NOT BE RESPONSIBLE FOR THE CONSTRUCTION OF THE PROJECT OR THE PERFORMANCE OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF THE PROJECT AND THE PERFORMANCE OF THE PROJECT. DIPRETE ENGINEERING SHALL NOT BE RESPONSIBLE FOR THE CONSTRUCTION OF THE PROJECT OR THE PERFORMANCE OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF THE PROJECT AND THE PERFORMANCE OF THE PROJECT.

NO.	DATE	DESCRIPTION	BY	DESIGN BY
1	04-02-2025	RESPONSE TO LOT 13 COMMENT	K.J.D.	B.E.G.
2	04-02-2025	RESPONSE TO LOT 13 COMMENT	K.J.D.	B.E.G.
3	04-02-2025	RESPONSE TO COMMENTS	K.J.D.	B.E.G.
4	04-02-2025	RESPONSE TO COMMENTS	K.J.D.	B.E.G.
5	04-02-2025	RESPONSE TO COMMENTS	K.J.D.	B.E.G.
6	04-02-2025	RESPONSE TO COMMENTS	K.J.D.	B.E.G.
7	04-02-2025	RESPONSE TO COMMENTS	K.J.D.	B.E.G.
8	04-02-2025	RESPONSE TO COMMENTS	K.J.D.	B.E.G.
9	04-02-2025	RESPONSE TO COMMENTS	K.J.D.	B.E.G.
10	04-02-2025	RESPONSE TO COMMENTS	K.J.D.	B.E.G.
11	04-02-2025	RESPONSE TO COMMENTS	K.J.D.	B.E.G.
12	04-02-2025	RESPONSE TO COMMENTS	K.J.D.	B.E.G.
13	04-02-2025	RESPONSE TO COMMENTS	K.J.D.	B.E.G.
14	04-02-2025	RESPONSE TO COMMENTS	K.J.D.	B.E.G.
15	04-02-2025	RESPONSE TO COMMENTS	K.J.D.	B.E.G.
16	04-02-2025	RESPONSE TO COMMENTS	K.J.D.	B.E.G.
17	04-02-2025	RESPONSE TO COMMENTS	K.J.D.	B.E.G.
18	04-02-2025	RESPONSE TO COMMENTS	K.J.D.	B.E.G.
19	04-02-2025	RESPONSE TO COMMENTS	K.J.D.	B.E.G.
20	04-02-2025	RESPONSE TO COMMENTS	K.J.D.	B.E.G.



BRANDON D. CARR
CIVIL
No. 51472
REGISTERED PROFESSIONAL ENGINEER
STATE OF MASSACHUSETTS

DIPRETE ENGINEERING ONLY WARRANTS PLANS ON A DIPRETE PROFESSIONAL ENGINEER OF DIPRETE ENGINEERING. DIPRETE ENGINEERING SHALL NOT BE RESPONSIBLE FOR THE CONSTRUCTION OF THE PROJECT OR THE PERFORMANCE OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF THE PROJECT AND THE PERFORMANCE OF THE PROJECT. DIPRETE ENGINEERING SHALL NOT BE RESPONSIBLE FOR THE CONSTRUCTION OF THE PROJECT OR THE PERFORMANCE OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF THE PROJECT AND THE PERFORMANCE OF THE PROJECT.

NO.	DATE	DESCRIPTION	BY	DESIGN BY
1	04-02-2025	RESPONSE TO LOT 13 COMMENT	K.J.D.	B.E.G.
2	04-02-2025	RESPONSE TO LOT 13 COMMENT	K.J.D.	B.E.G.
3	04-02-2025	RESPONSE TO COMMENTS	K.J.D.	B.E.G.
4	04-02-2025	RESPONSE TO COMMENTS	K.J.D.	B.E.G.
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20	04-02-2025	RESPONSE TO COMMENTS	K.J.D.	B.E.G.

LOUISE DRIVE EXTENSION
ASSESSOR'S PLAT 339 LOTS 9, 13-16, & ASSESSOR'S PLAT 349 LOT 2
FRANKLIN, MASSACHUSETTS
PREPARED FOR:
PAUL LONGOBARDI
18 JAMES ST.
FRANKLIN, MASSACHUSETTS 02038



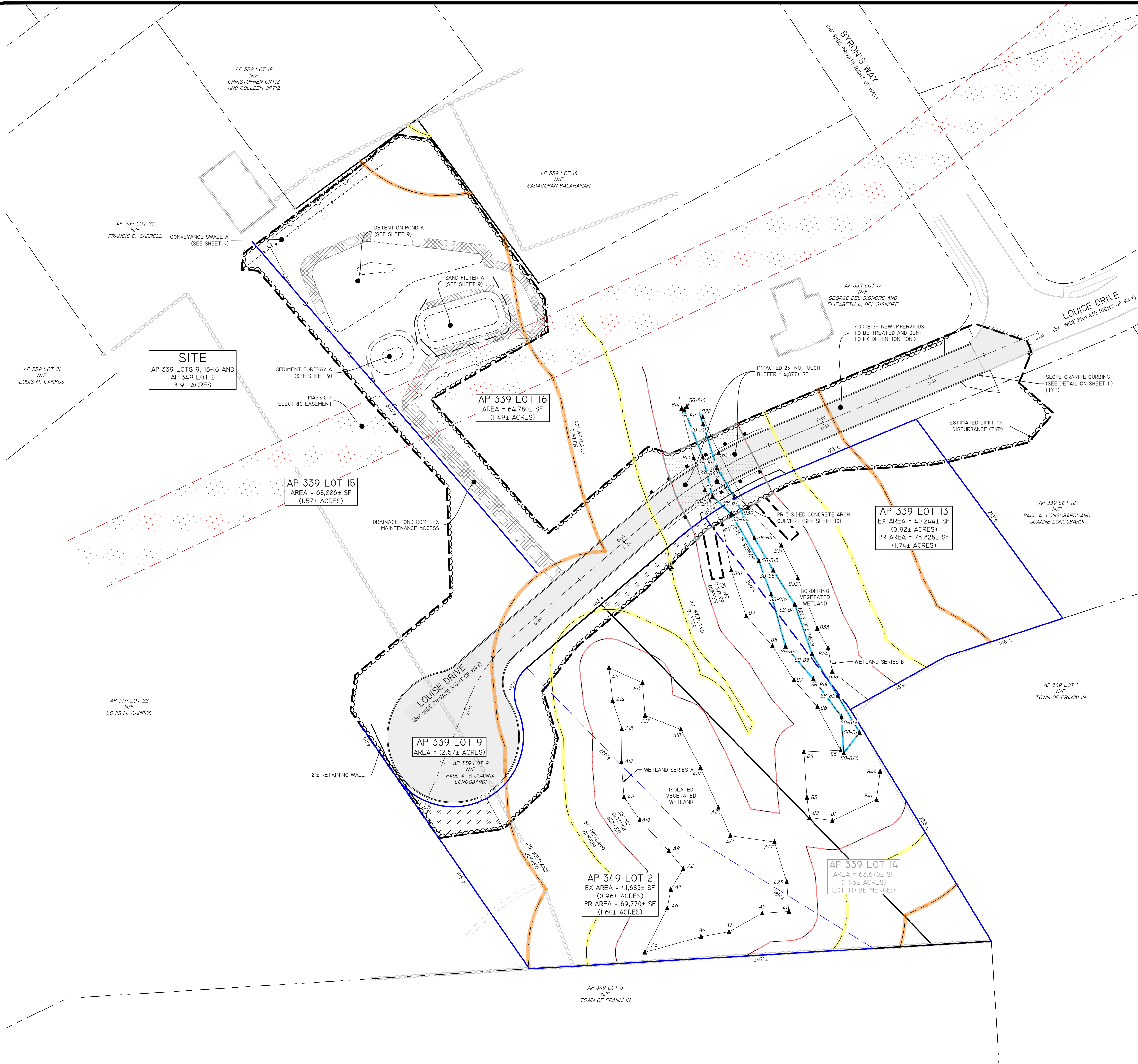
BRANDON D. CARR
CIVIL
No. 51472
REGISTERED PROFESSIONAL ENGINEER
STATE OF MASSACHUSETTS

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NO.	DATE	DESCRIPTION	BY	DESIGN BY
1	04-02-2025	RESPONSE TO LOT 13 COMMENT	K.J.D.	B.E.G.
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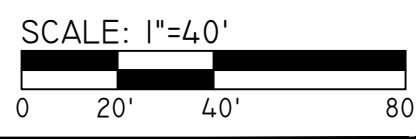
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ASSESSOR'S PLAT 339 LOTS 9, 13-16, & ASSESSOR'S PLAT 349 LOT 2
FRANKLIN, MASSACHUSETTS
PREPARED FOR:
PAUL LONGOBARDI
18 JAMES ST.
FRANKLIN, MASSACHUSETTS 02038

Z:\DEVELOPMENT\PROJECTS\3349-001 LOUISE DRIVE\AUTOCAD DRAWINGS\3349-001 PLANNING PLOT.DWG PLOTTED: 2/21/2025



DEVELOPMENT DATA:
TOTAL SITE AREA: 8.9± ACRES
TOTAL LOT AREA: 5
AVERAGE LOT AREA: 6.4± ACRES
RIGHT OF WAY AREA: 1.3± ACRES
RIGHT OF WAY WIDTH: 2.5± ACRES
LENGTH OF ROAD: 56'
PAVEMENT WIDTH: 26'

DIMENSIONAL REGULATIONS:
CURRENT ZONING: RR-1
MINIMUM LOT AREA: 40,000 SF
MINIMUM FRONTAGE AND LOT WIDTH: 200'
MINIMUM FRONT AND CORNER SIDE YARD: 40'
MINIMUM SIDE YARD: 40'
MINIMUM REAR YARD: 40'
MAXIMUM STRUCTURE HEIGHT: 35'
MAXIMUM LOT COVERAGE OF EXISTING UPLAND: 20 / 25*%
*STRUCTURES / STRUCTURES AND PAVING



DiPrete Engineering
Engineers - Planners - Surveyors
www.diprete-eng.com
105 Eastern Avenue, Suite 200, Dedham, MA 02026 • Tel 781-36-0023

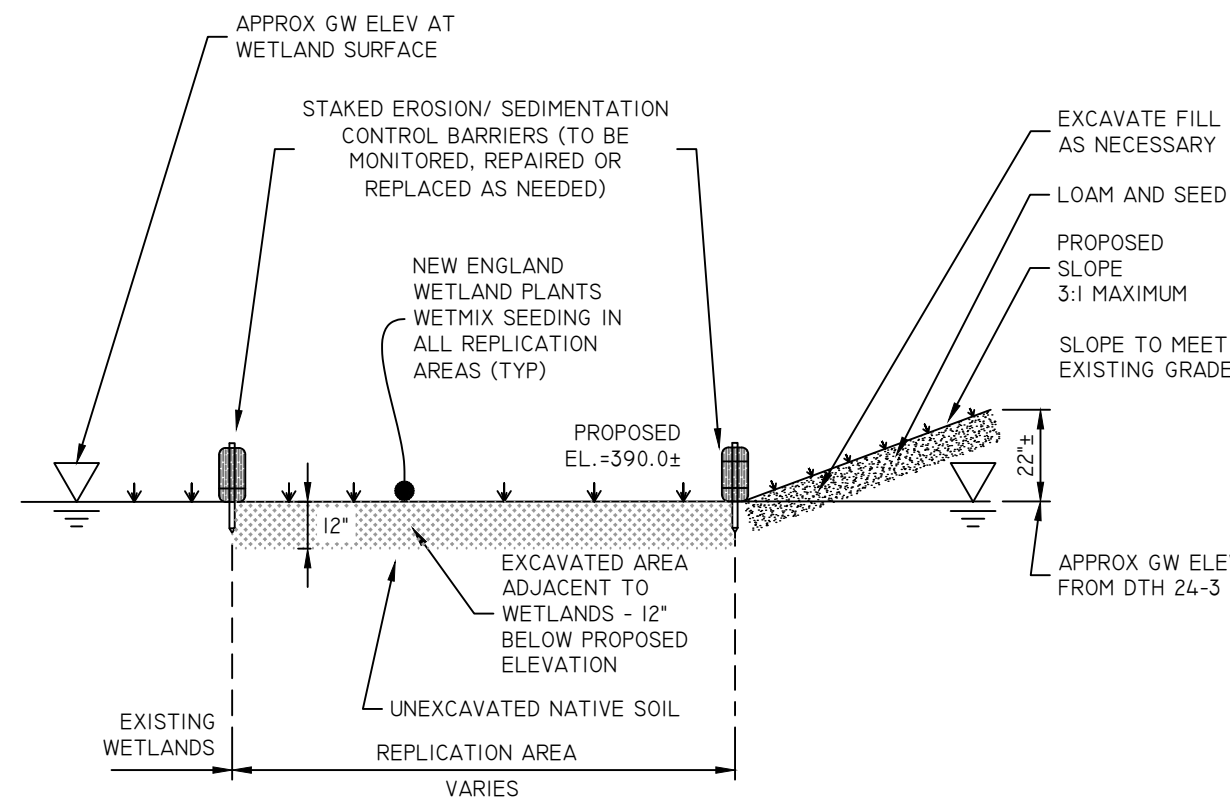
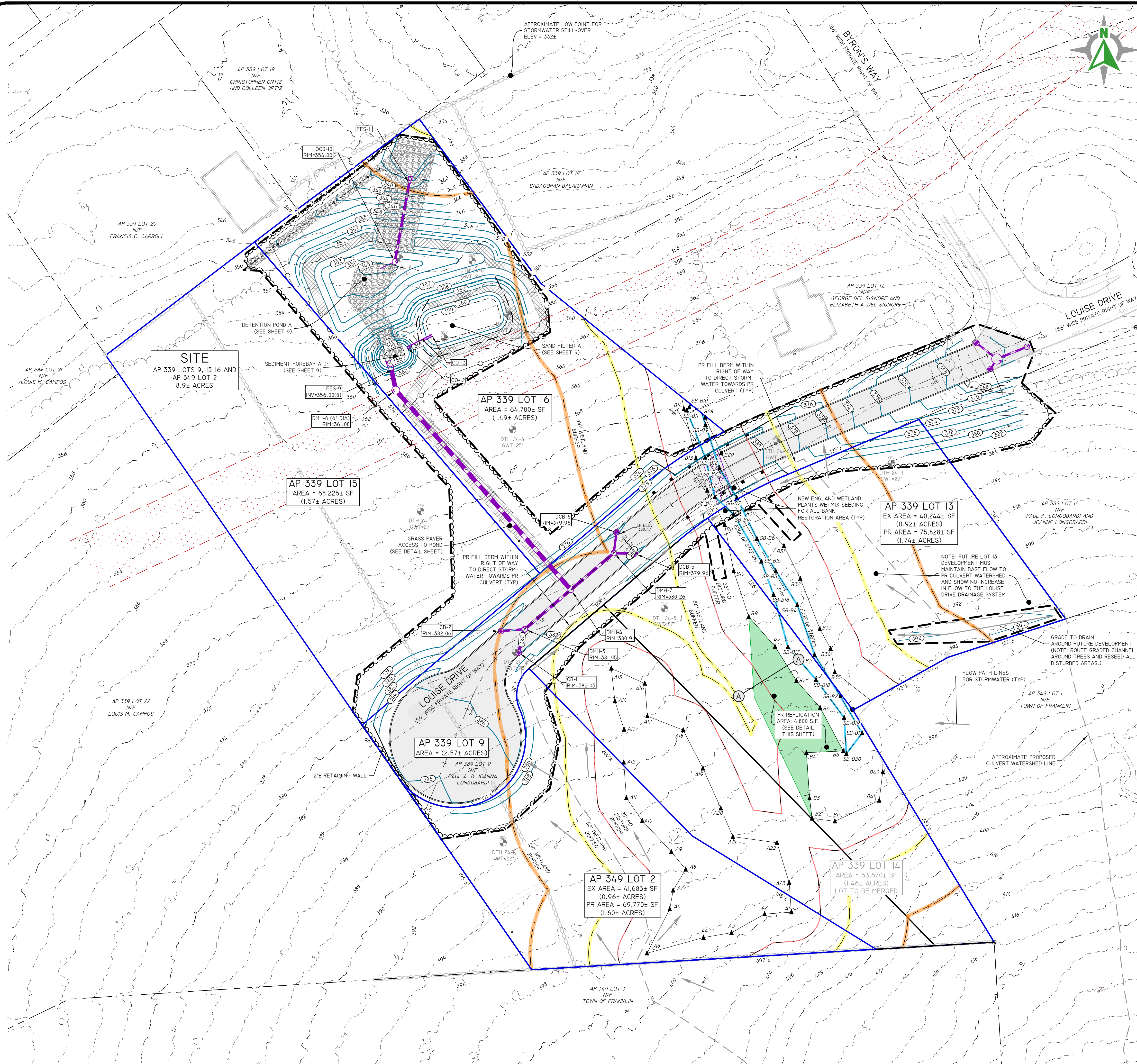
THIS PLAN SET MUST NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS IT IS ACCOMPANIED BY A REGISTERED PROFESSIONAL ENGINEER OF DIPRETE.

DIPRETE ENGINEERING ONLY WARRANTS PLANS ON A DIPRETE PROFESSIONAL ENGINEER OF DIPRETE ENGINEERING, DIPRETE ENGINEERING, INC. OR DIPRETE ENGINEERING, LLC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, CONSTRUCTION, AND MAINTENANCE OF THE PROJECT. DIPRETE ENGINEERING ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE. ONLY DIPRETE ENGINEERING ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE. SEE UTILITY MAPS ON SHEET 3.

NO.	DATE	DESCRIPTION	DESIGN BY: B.E.G.
1	03/27/2025	RESPONSE TO COMMENTS	K.J.D.
2	03/27/2025	RESPONSE TO COMMENTS	K.J.D.
3	03/27/2025	RESPONSE TO COMMENTS	K.J.D.
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19	03/27/2025	RESPONSE TO COMMENTS	K.J.D.
20	03/27/2025	RESPONSE TO COMMENTS	K.J.D.
21	03/27/2025	RESPONSE TO COMMENTS	K.J.D.
22	03/27/2025	RESPONSE TO COMMENTS	K.J.D.
23	03/27/2025	RESPONSE TO COMMENTS	K.J.D.
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99	03/27/2025	RESPONSE TO COMMENTS	K.J.D.
100	03/27/2025	RESPONSE TO COMMENTS	K.J.D.

SITE PLAN
LOUISE DRIVE EXTENSION
ASSESSOR'S PLAT 339 LOTS 9, 13-16, & ASSESSOR'S PLAT 349 LOT 2
FRANKLIN, MASSACHUSETTS
PREPARED FOR:
PAUL LONGOBARDI
18 JAMES ST.
FRANKLIN, MASSACHUSETTS 02038
DE A38 NO. 3349-001 COPYRIGHT 2025 BY DIPRETE ENGINEERING ASSOCIATES, INC.

SHEET **6** OF 11



WETLANDS REPLICATION AREA DETAIL: SECTION A-A
NOT TO SCALE

New England Wetmix (Wetland Seed Mix)

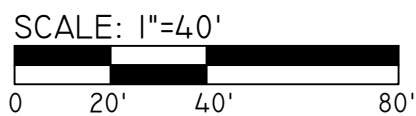
Botanical Name	Common Name	Indicator
<i>Carex vulpinoidea</i>	Fox Sedge	OBL
<i>Carex scoparia</i>	Blunt Broom Sedge	FACW
<i>Carex lurida</i>	Lurid Sedge	OBL
<i>Carex lupulina</i>	Hop Sedge	OBL
<i>Poa palustris</i>	Fowl Bluegrass	FACW
<i>Bidens frondosa</i>	Beggar Ticks	FACW
<i>Scirpus atrovirens</i>	Green Bulrush	OBL
<i>Asclepias incarnata</i>	Swamp Milkweed	OBL
<i>Carex crinita</i>	Fringed Sedge	OBL
<i>Vernonia noveboracensis</i>	New York Ironweed	FACW+
<i>Juncus effusus</i>	Soft Rush	FACW+
<i>Aster lateriflorus (Symphyotrichum lateriflorum)</i>	Starved/Calico Aster	FACW
<i>Iris versicolor</i>	Blue Flag	OBL
<i>Glyceria grandis</i>	American Mannagrass	OBL
<i>Mimulus ringens</i>	Square Stemmed Monkey Flower	OBL
<i>Eupatorium maculatum (Eutrochium maculatum)</i>	Spotted Joe Pye Weed	OBL

NEW ENGLAND WETMIX
NOT TO SCALE

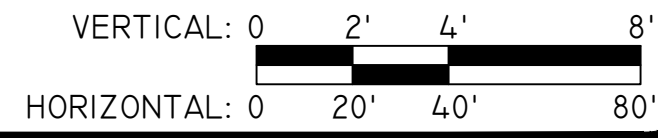
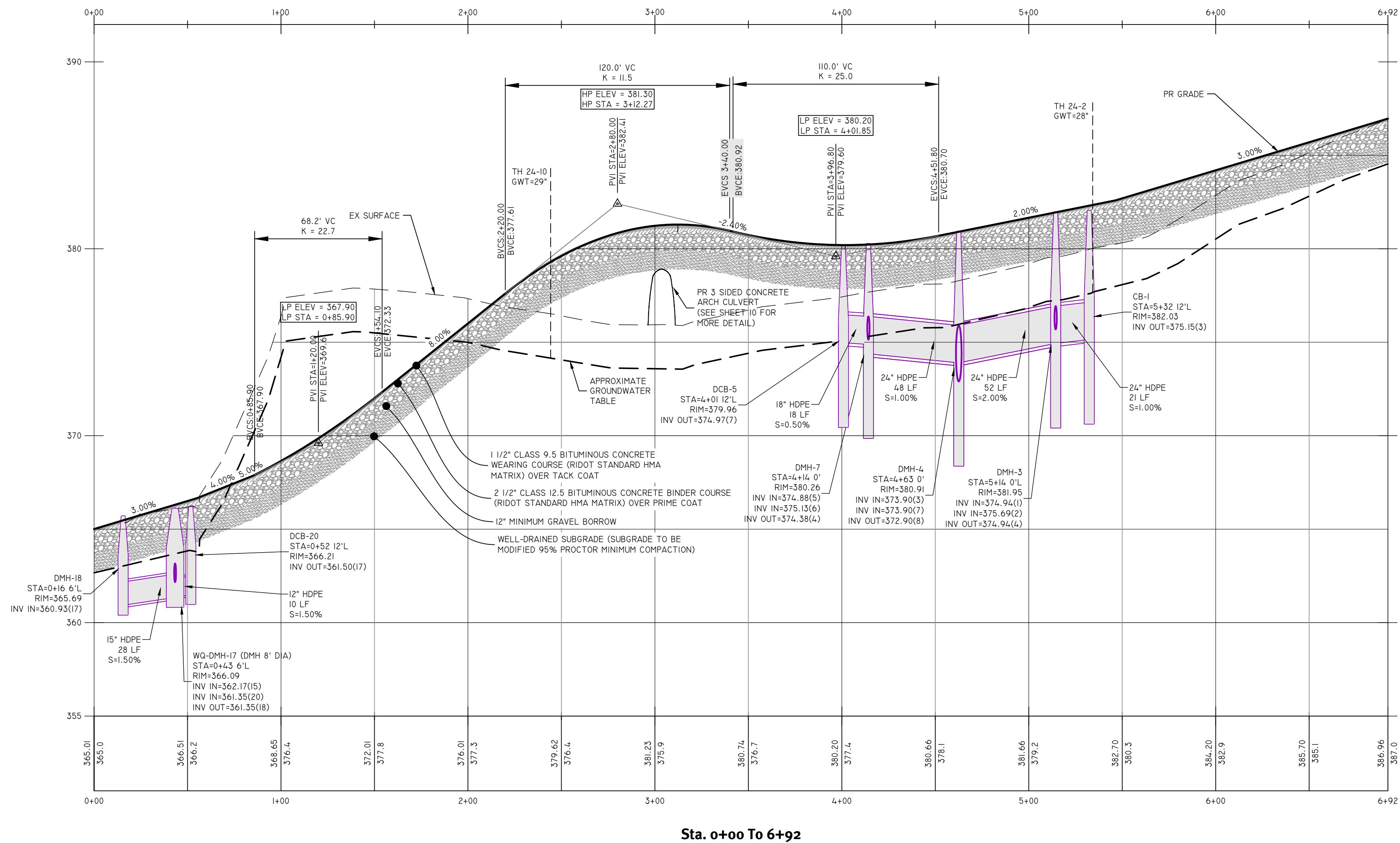
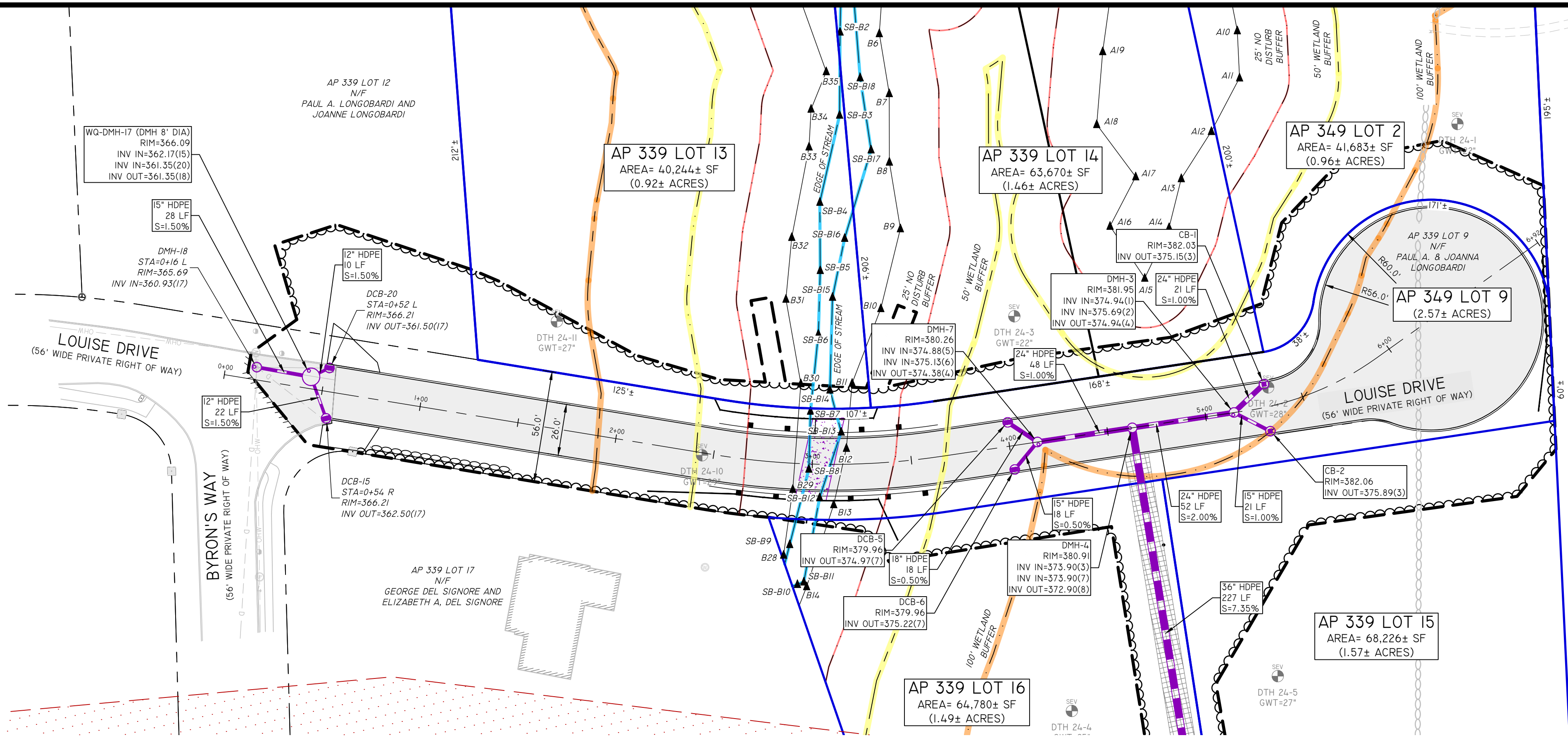


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NO.	DATE	DESCRIPTION	DESIGN BY: B.E.G.
1	06/12/2023	RESPONSE TO LOT 13 COMMENT	K.J.D.
2	07/12/2023	RESPONSE TO LOT 13 COMMENT	K.J.D.
3	08/12/2023	RESPONSE TO LOT 13 COMMENT	K.J.D.
4	09/12/2023	RESPONSE TO LOT 13 COMMENT	K.J.D.
5	10/12/2023	RESPONSE TO LOT 13 COMMENT	K.J.D.
6	11/12/2023	RESPONSE TO LOT 13 COMMENT	K.J.D.
7	12/12/2023	RESPONSE TO LOT 13 COMMENT	K.J.D.
8	01/12/2024	RESPONSE TO LOT 13 COMMENT	K.J.D.
9	02/12/2024	RESPONSE TO LOT 13 COMMENT	K.J.D.
10	03/12/2024	RESPONSE TO LOT 13 COMMENT	K.J.D.



Z:\DESHAIN\PROJECTS\1342-001 LOUISE DRIVE\AUTOCAD DRAWINGS\1342-001 PLANS\DWG PLOTTED: 2/5/2025



PLAN AND PROFILE

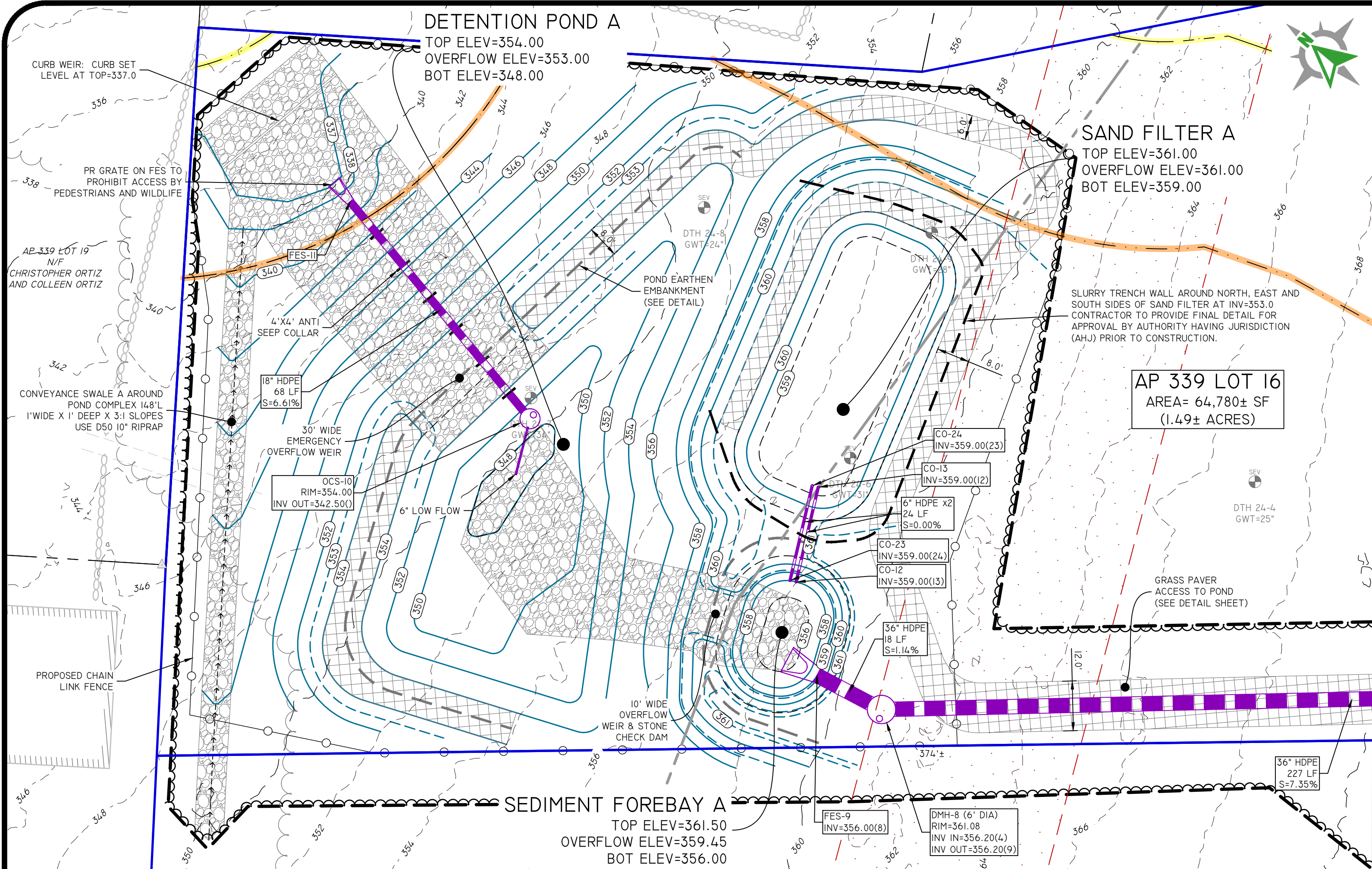
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FRANKLIN, MASSACHUSETTS
PREPARED FOR:
PAUL LONGOBARDI
18 JAMES ST.
FRANKLIN, MASSACHUSETTS 02038

NO.	DATE	DESCRIPTION	BY	CHKD.
1	03/27/2025	RESPONSE TO COMMENTS	J.A.R.	
2	03/27/2025	RESPONSE TO COMMENTS	J.A.R.	
3	03/27/2025	RESPONSE TO COMMENTS	J.A.R.	
4	03/27/2025	RESPONSE TO COMMENTS	J.A.R.	
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16	03/27/2025	RESPONSE TO COMMENTS	J.A.R.	
17	03/27/2025	RESPONSE TO COMMENTS	J.A.R.	
18	03/27/2025	RESPONSE TO COMMENTS	J.A.R.	
19	03/27/2025	RESPONSE TO COMMENTS	J.A.R.	
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IT IS THE RESPONSIBILITY OF THE USER TO OBTAIN ALL NECESSARY PERMITS AND EASEMENTS.
A REGISTERED PROFESSIONAL ENGINEER OF DIPRETE.

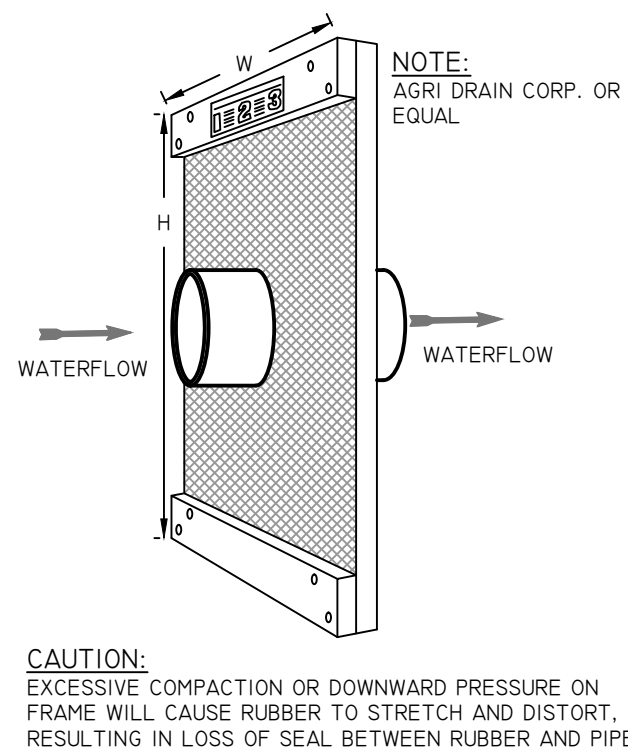
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THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND EASEMENTS.
METHODS, SAFETY, PRECAUTIONS AND REQUIREMENTS, AND OTHER DESIGN INFORMATION SHALL BE THE RESPONSIBILITY OF THE USER.
EXISTING UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE.
ONLY A DIPRETE ENGINEERING ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF ANY INFORMATION PROVIDED BY ANY OTHER PARTY.
SEE "UTILITY NOTE" ON SHEET 3.

BRANDON D. CARP
No. 51472
REGISTERED PROFESSIONAL ENGINEER
5-27-25



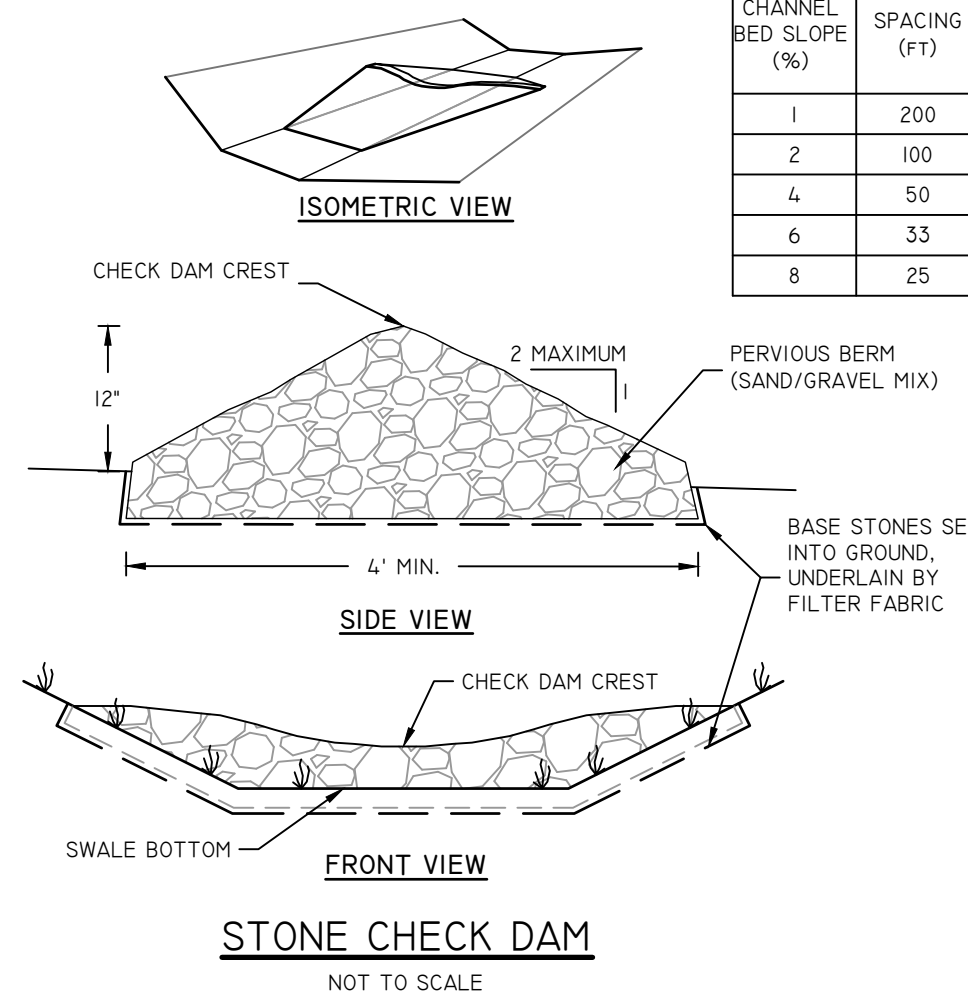
LOCATION	WIDTH	HEIGHT	QUANTITY
POND A	4.0	4.0	6

- INSTALLATION NOTES:
- UNROLL THE ANTI-SEEP COLLAR AND ALIGN THE BOARDS TO FORM A SQUARE. ATTACH METAL BRACKETS TO THE CORNER OF THE BOARDS WITH THE SCREWS PROVIDED. ATTACH THE RUBBER TO THE FRAME WITH THE NAILS PROVIDED.
 - CUT A ROUND HOLE IN THE CENTER OF THE RUBBER THAT IS SMALLER THAN THE PIPE SIZE (APPROX. 33% SMALLER). THIS WILL ALLOW THE RUBBER TO STRETCH OVER THE PIPE WHEN THE ANTI-SEEP IS INSTALLED ON THE PIPE. THIS WILL PROVIDE A TIGHT SEAL BETWEEN THE PIPE AND THE ANTI-SEEP COLLAR. NOTE: CUTTING AN "X" OR SLIT WILL CAUSE THE RUBBER TO TEAR.
 - SLIP THE PIPE THROUGH THE ANTI-SEEP COLLAR. INSPECT THE SEAL BETWEEN THE PIPE AND THE ANTI-SEEP COLLAR. CAREFULLY BACKFILL, AND COMPACT WITH SUITABLE SOIL.



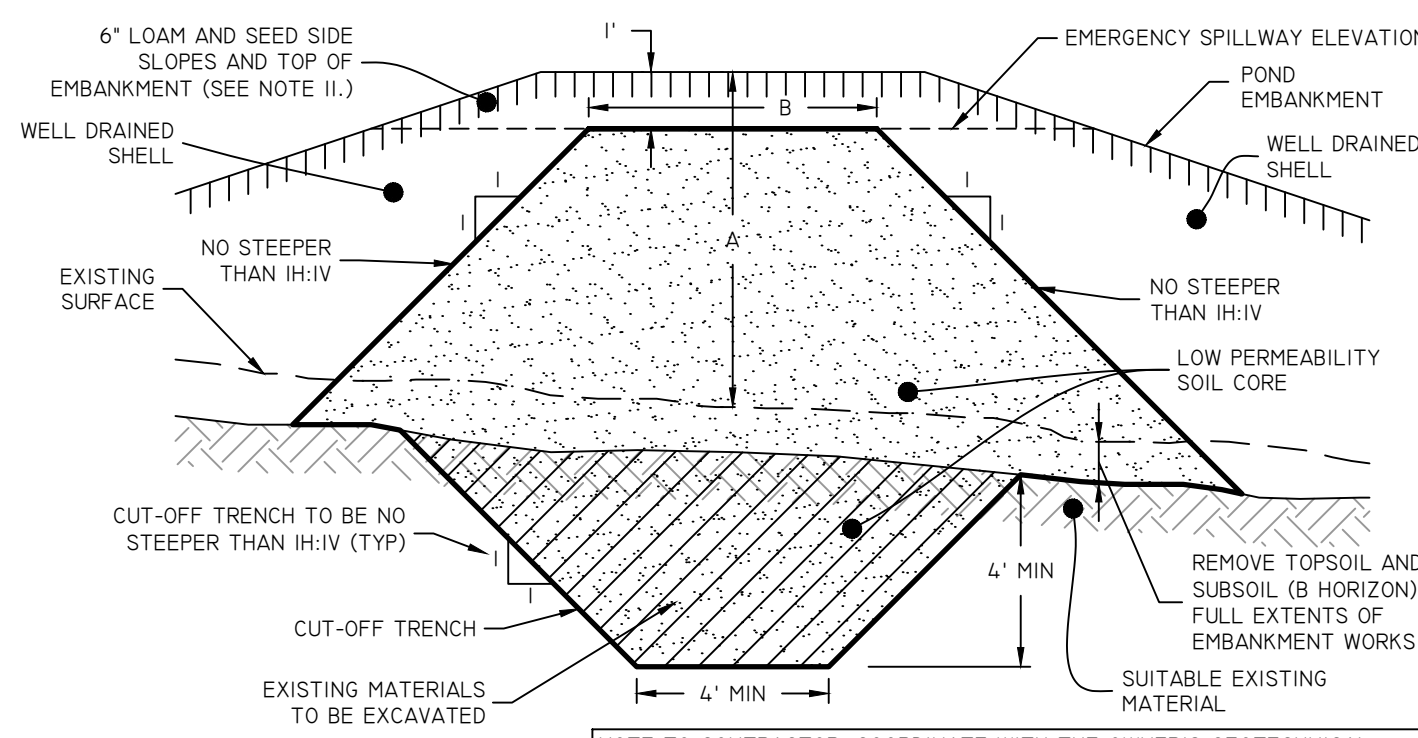
ANTI-SEEP COLLAR

NOT TO SCALE



STONE CHECK DAM

NOT TO SCALE



POND EARTHEN EMBANKMENT:
LOW PERMEABILITY CORE

NOT TO SCALE

- NOTES:
- LOW PERMEABILITY SOIL CORE TO BE PROVIDED FOR ALL POND EMBANKMENTS UNLESS AN ALTERNATIVE METHOD IS SPECIFICALLY NOTED ON THE PLANS.
 - LOW PERMEABILITY SOIL CORE TO BE CONSTRUCTED OF A MATERIAL WITH A MINIMUM OF 30% PASSING THE #200 SIEVE AND A MAXIMUM PERMEABILITY OF 0.00005 CM/S.
 - WELL DRAINED SHELL TO BE GRAVEL BORROW WITH LESS THAN 10% PASSING THE #200 SIEVE AND MEET THE GRADATION AS SHOWN ON THIS DETAIL.
 - ALL MATERIAL MUST BE FREE FROM DELETERIOUS/ ORGANIC MATTER, INCLUDING (BUT NOT LIMITED TO) ROOTS, SOD, RUBBLE, SNOW, ICE, RUBBISH ETC.
 - MINIMUM DEPTH OF CUT-OFF TRENCH SHALL BE 4' MEASURED FROM THE LOWEST ELEVATION OF THE UNDISTURBED EXISTING SURFACE INTERFACE. SEE DETAIL.
 - THE MINIMUM BOTTOM WIDTH OF THE CUT-OFF TRENCH SHALL BE 4', AND WIDE ENOUGH TO PERMIT OPERATION OF COMPACTION EQUIPMENT.
 - SIDE SLOPES OF THE CUT-OFF TRENCH SHALL BE NO STEEPER THAN 1H:1V.
 - IF BEDROCK IS ENCOUNTERED BELOW THE POND EMBANKMENT THE CUT OFF TRENCH MAY BE MODIFIED AT THE DIRECTION OF A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER.
 - THE LOW PERMEABILITY CORE AT A MINIMUM SHALL EXTEND UP BOTH ABUTMENTS TO THE EMERGENCY SPILLWAY ELEVATION.
 - COMPACTION REQUIREMENTS FOR THE SHELL AND LOW PERMEABILITY CORE TO BE 95% OF THE MODIFIED PROCTOR PER ASTM D1557. ALL FILL TO BE PLACED IN LIFTS NOT EXCEEDING 12".
 - SIDE SLOPE OF POND EMBANKMENT TO BE NO STEEPER THAN THE SLOPES SHOWN ON THE POND-SPECIFIC DESIGN PLANS WITHOUT WRITTEN DIRECTION FROM THE DESIGN ENGINEER. IF ANY POND SIDE SLOPE IS STEEPER THAN 3H:1V, SLOPE PROTECTION MUST BE UTILIZED ON POND EMBANKMENT, WHICH MAY INCLUDE (BUT NOT BE LIMITED TO) RIPRAP AND/OR EROSION CONTROL MATS.
 - THE LOW PERMEABILITY CORE MUST BE KEPT FREE FROM STANDING WATER DURING THE BACKFILL OPERATION.
 - ALL EMBANKMENT INSTALLATIONS TO BE SUPERVISED BY A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER. SEE NOTE TO CONTRACTOR.
 - ANY PROPOSED DEVIATIONS FROM THIS DETAIL MUST BE DESIGNED BY A SUITABLY QUALIFIED PROFESSIONAL GEOTECHNICAL ENGINEER AND SUBMITTED TO THE SITE ENGINEER (AND AHJ WHERE REQUIRED) FOR REVIEW PRIOR TO CONSTRUCTION.

DESCRIPTION	SNF-A
TOP OF POND ELEVATION	361.00
100 YEAR STORM ELEVATION	360.13
10 YEAR STORM ELEVATION	359.80
1 YEAR STORM ELEVATION	359.50
WQ STORM ELEVATION	357.72
BOTTOM OF POND ELEVATION	359.00
TOP SOIL DEPTH	6"
SAND DEPTH	18"
BOTTOM OF SAND ELEVATION	357.00
SEASONAL HIGH GWT ELEVATION	355.42
SOIL EVALUATION	TH-24-6

* MAXIMUM ELEVATION, AVG = (355.42 HIGH + 352.42 LOW)/2 = 353.92
APPROX 3.1 FEET AVERAGE SEPARATION

POND EXCAVATION MUST BE MONITORED/ INSPECTED BY SITE ENGINEER AND/ OR GEOTECHNICAL ENGINEER AT TIME OF INITIAL EXCAVATION TO BOTTOM OF POND, AND AS REQUIRED BY DESIGN ENGINEER. CONTRACTOR MUST PROVIDE ADEQUATE NOTICE FOR INSPECTION.

SIDE SLOPES OF POND TO BE SEED WITH NEW ENGLAND EROSION CONTROL/ RESTORATION MIX (MOIST SITES) BY NEW ENGLAND WETLAND PLANTS (OR APPROVED EQUAL).

TOP OF POND (8' MINIMUM WIDTH) ELEV: (SEE PLANS)

SIDE SLOPES (SEE PLANS)

NOTE: LIMITS OF SAND FILTER TO BE STAKED OUT AND NOT USED AS A TEMPORARY SEDIMENT BASIN DURING CONSTRUCTION (NO CONSTRUCTION TRAFFIC ALLOWED WITHIN FILTER LIMITS)

SIDE SLOPES AND TOP OF EMBANKMENTS TO BE 6\"/>

SIDE SLOPES (SEE PLANS)

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TOP OF POND (5' MINIMUM WIDTH) ELEV: (SEE PLANS)

SIDE SLOPES (SEE PLANS)

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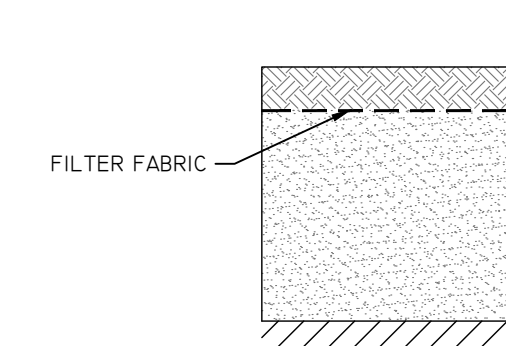
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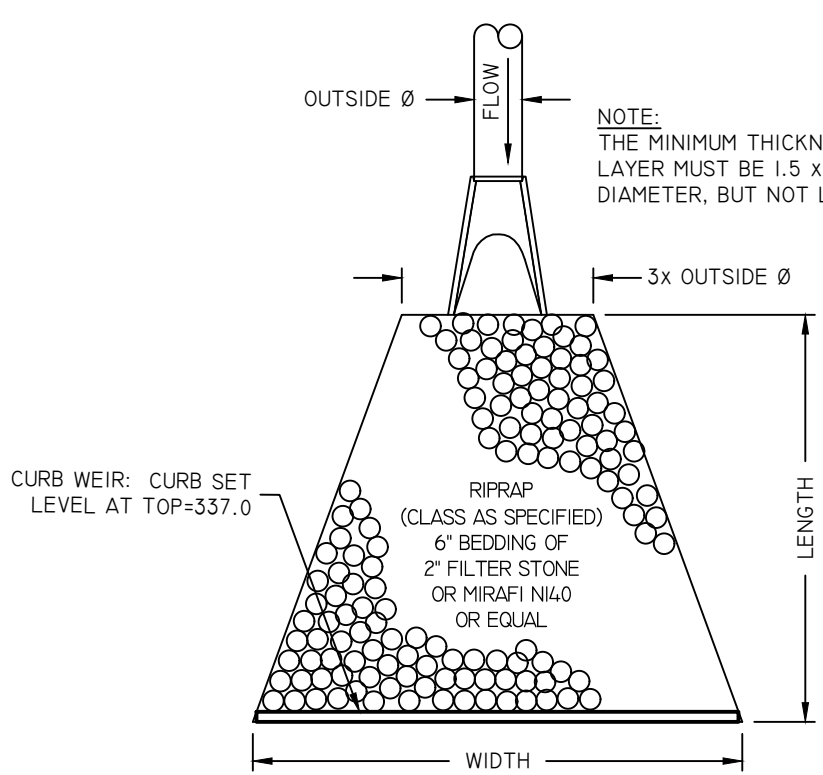
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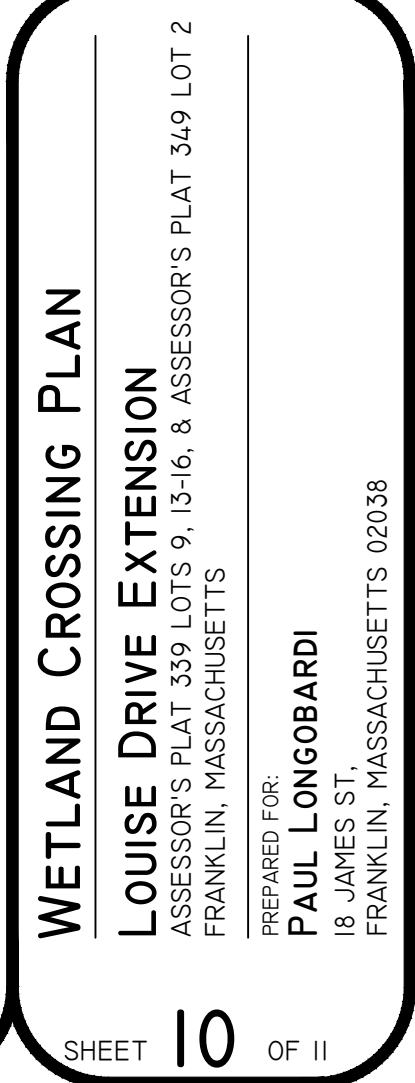
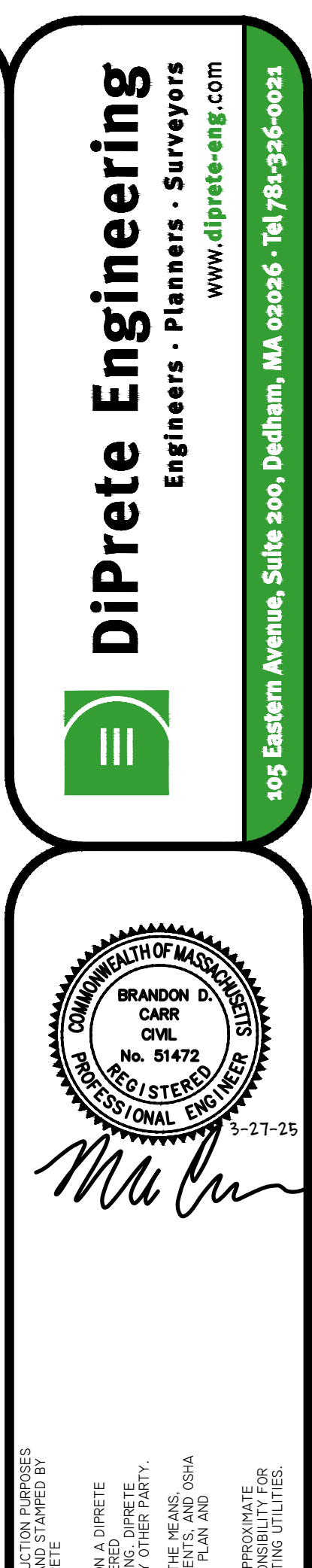
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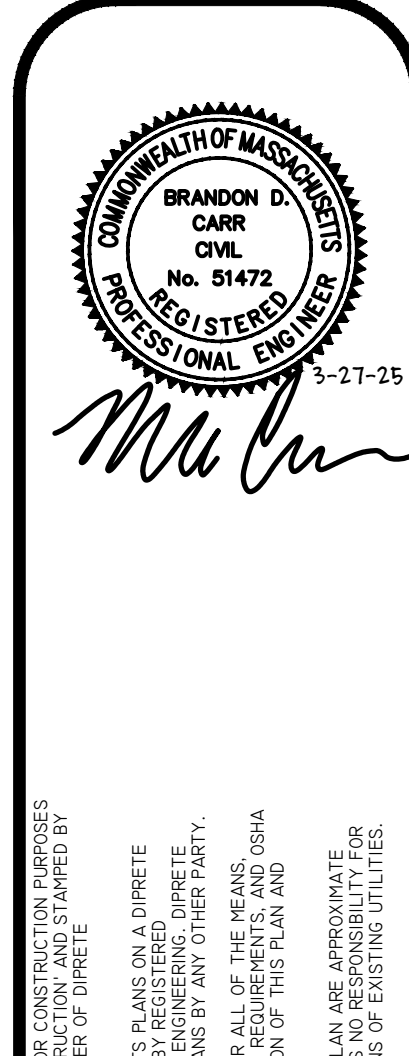
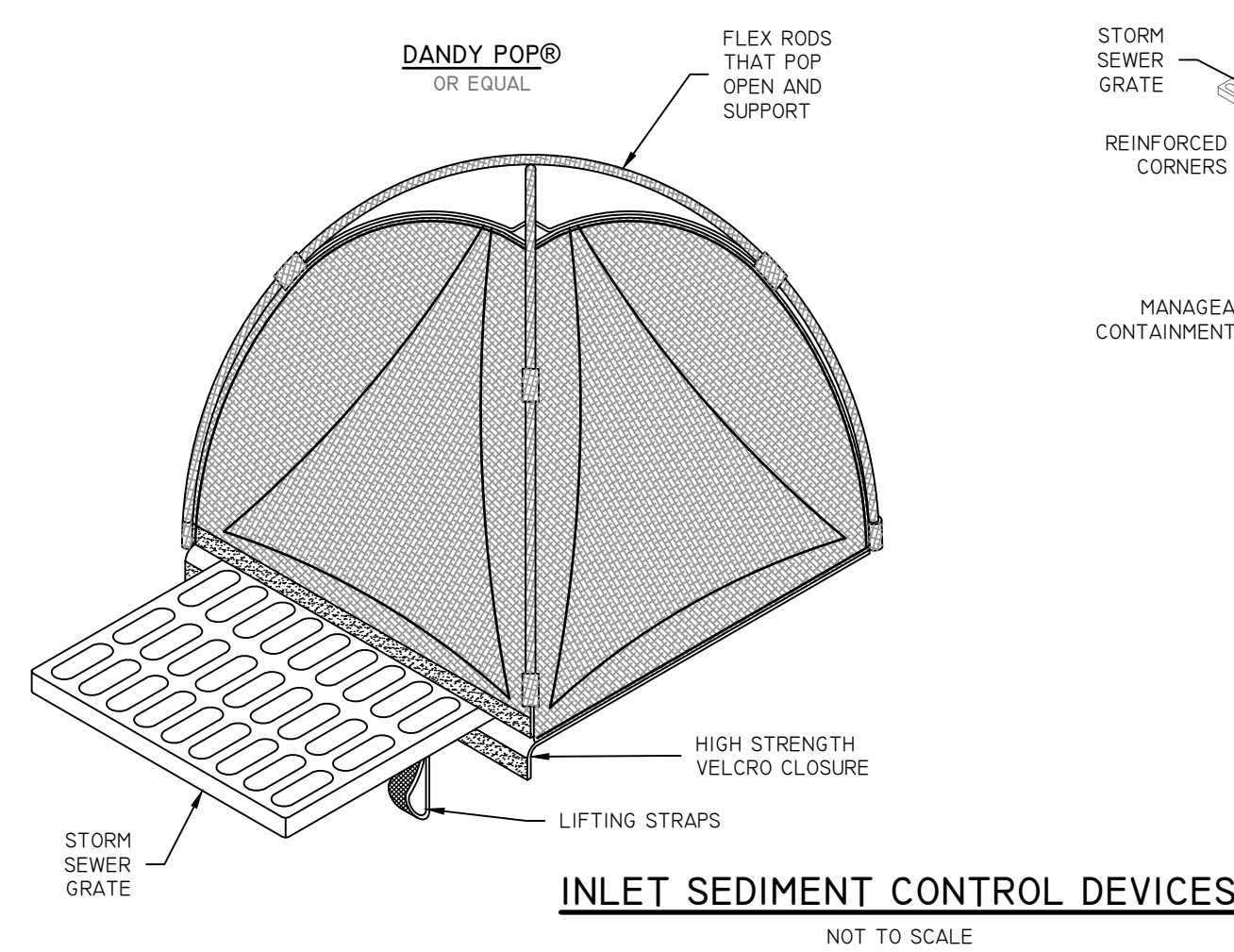
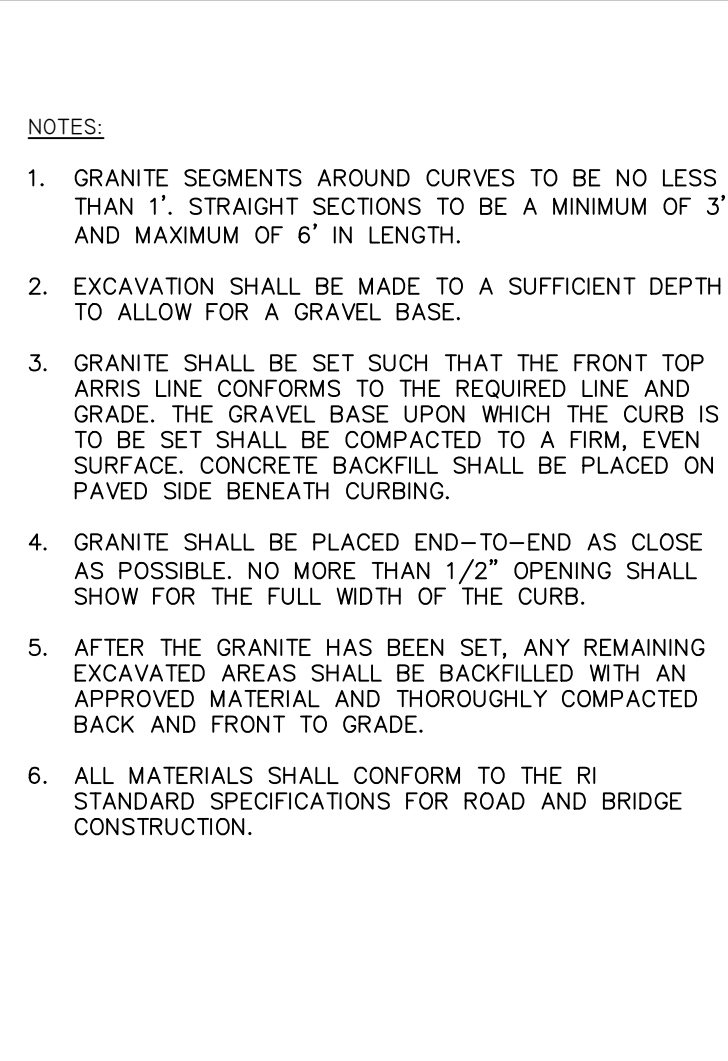


SAND FILTER
TYPICAL SECTION

FLARED END	LENGTH	WIDTH	D50
FLARED END II	19.0	24.0	3"







The diagram illustrates a cross-section of a pavement tie-in detail. On the left, a vertical dashed line marks the 'EXISTING EDGE OF PAVEMENT'. To the left of this edge, the 'NEW PAVEMENT' is shown, consisting of a 'GRAVEL BASE COURSE' and a 'SUBBASE COURSE'. A label points to this area: 'NEW PAVEMENT. REFER TYPICAL PAVEMENT SECTION'. A line labeled 'MAINTAIN GUTTER FLOW' points to the top surface of the new pavement. The 'EXISTING PAVEMENT' is on the right, showing 'EXISTING FULL-DEPTH PAVEMENT' and 'EXISTING SUBGRADE'. The transition between the new and existing pavement is defined by a '1.0' CUT-BACK' and a '1.0' OVER-TRIM'. The existing pavement layers are labeled '25% ASPHALT' and '75% ASPHALT'. The existing subgrade is labeled '25% ASPHALT' and '75% ASPHALT'. The diagram is titled 'PAVEMENT TIE-IN DETAIL' and includes the note 'PRIME COAT VERTICAL FACE OF SAWCUT PRIOR TO INSTALLATION OF NEW PAVEMENT LAYERS.' and 'NOT TO SCALE'.

